



## SPECIAL PRODUCTS FOR

**PA**

**PET**

**PC**

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# Who We Are

In 2024 the company has been welcomed by the Greenchemicals Srl's family, highly specialized in flame retardant additives, with a particular focus on the development of halogen-free formulations and those with low environmental impact. Together, the two companies are marking a pathway in the plastics world toward innovation and sustainability.



## A SHARED VISION Recycle, Reuse, Reduce:

Polichem and Greechemicals achieve these goals together. All Polichem products can be considered sustainable, since they can lower processing temperatures and allow a higher production rate. The overall performance improves, while higher percentage of recycled products can be used.



**Greenchemicals** develops and promotes performing solution:

- Fire performance and thermal stability
- Superior environmental and health profile (more sustainable with halogen free solutions)
- Compatibility with polymeric matrix
- Cost / performance

Polichem develops innovative additives for the PA and PET applications, enhancing sustainability in production cycles and delivering efficiency with a greener impact.

## ABOUT POLICHEM

- Founded in 1989
- Based in Garlasco (PV) – North Italy
- Polichem premises include the production site, the analytical facilities and the application laboratory.



## PHYSICAL FORMS:

- Masterbatches
- Powder blends
- Liquid dispersions

## MAIN FIELDS OF APPLICATION:

- PA
- PP (virgin and recycled)
- PET (virgin and recycled)
- PTB
- PE

## MAIN PRODUCTS:

- Nucleating, crystallizing and mould release agents
- Processing aid and lubricants, not impacting on MFI
- Chain extenders and I.V. enhancers
- Chemical fluidifying agents, impacting on MFI
- High performance stabilizers package, organic and inorganic
- Additive to avoid fibrillating phenomena

## QUALITY MANAGEMENT SYSTEM

Polichem has started the process of adaptation of the **Quality Management System (QSM) in compliance with ISO 9001 STANDARD** to improve all activities associated with the quality, which Greenchemicals already adopted.

## MEMBERSHIP:

**pinfa**

Phosphorus, Inorganic & Nitrogen Flame Retardants Association



NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>AUSICER B-21</b>	ABS, regenerated ABS, regenerated PMMA	AUSICER B-21 it is used in coloring, compound and regeneration of ABS.	In ABS compounding and coloring it allows to enhance ranges and facilitate color dispersion. In regenerated ABS it reduces pulsations, it reduces the typical swelling of moist ABS and stabilizes M.I. (all granules show the same fluidity). In regenerated PMMA it enhances ranges and reduces amperage, it reduces pulsations, it reduces oxidation due to production process. In regeneration of highly moist ABS, AUSICER B-21 acts at its best specially when the compound process is made at very low temperatures (150-160°C).	<b>USAGE LEVEL:</b> - <b>0,50-1,00</b> % in compounding and coloring of ABS - <b>0,70-1,00</b> % in regeneration of ABS - <b>0,15%</b> in compounding and regeneration of PMMA  <b>PRODUCT FORM:</b> Powder <b>MELTING POINT:</b> 145-160°C <b>COLOUR:</b> White
<b>AUSITERM 431</b>	PA, PC and ALLOYS	AUSITERM 431 finds application in compounding, recycling, colouring of PA, PC and alloys.	It affects both the product and the process, by a reduction of the melt viscosity without any influence on the mechanical and optical properties. Side reported effects are the reduction of the process temperatures, good wetting ability towards fillers and pigments, improved intermeshing, effects in the alloys production. AUSITERM 431 doesn't lead to blooming or discolouring ad it doesn't reduce welding ability, printing or metal deposition.	<b>USAGE LEVEL:</b> The range of dosage is <b>0,5 - 0,7</b> %  <b>PRODUCT FORM:</b> Liquid <b>MELTING POINT:</b> 65-68°C <b>COLOUR:</b> White
<b>MODIFICANTE WLF</b>	PE / PBT	MODIFICANTE WLF acts as impact modifier from PET and PBT polyesters, when added during the extrusion process.	It is suitable for both virgin and recycled polyesters, and doesn't need any pre-drying before use. MODIFICANTE WLF leads to a synergic effect when used <b>together with AUSIPOL PP-30 or REGRATEX MB-D</b> to achieve extremely high impact performances.	
<b>NORMANYL 7030</b>	PA 6 and PA 6.6	NORMANYL 7030 is used as a nucleant mold release agent, processing aid and external lubricant both in dry addition and compounding of the PA and PBT reinforced and not reinforced.	PA added with NORMA NYL 7030 shows: - reduced molding cycles - decisive detachment from the mold - rapid cooling times - molded parts without bubbles, without smudging - high dimensional stability and homogeneous shrinkage - an extrusion without pulsations - an increase of the Out Puts - an improvement of the Gloss and the Diameter Constancy of the Articles	<b>USAGE LEVEL:</b> Recommended around <b>0,3%</b>  <b>PRODUCT FORM:</b> Powder <b>MELTING POINT:</b> 145-175°C <b>COLOUR:</b> Whitish
<b>AUSIFLUID MB PA-4530</b>	PA 6, PA 6.6, filled compounds	AUSIFLUID MB PA-4530 is used to increase melt flow index of Polyamide 6, 6.6, 6 GF, 6.6 GF and to facilitate filling in complex moulds.	AUSIFLUID MB PA-4530 has been designed to be effective both on high and medium viscosity polyamides, avoiding the loss of thermal and mechanical performances. No color shift is experienced in PA.	<b>USAGE LEVEL:</b> Recommended addition levels are <b>0,5 % to 1,50%</b> in reinforced or not reinforced compounds, according to starting MFI and final desired flowability  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Polyamide <b>MELTING POINT:</b> 220°C <b>COLOUR:</b> Light yellow

NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>AUSIFLUID MB-PBT</b>	PBT compounds	AUSIFLUID MB-PBT is an additive masterbatch suitable to improve Melt Flow Index of PBT (Polybutylene-Terephthalate).	It has been designed to be effective both on virgin or reinforced PBT, leading to an improvement of flowability with a minimal loss of thermal and mechanical performances. The easy handling allows the AUSIFLUID MB-PBT to be used in extrusion or directly in injection molding by simple tumble mixing with the neat or reinforced compounds. No side effects like discoloring are experienced and also surface aesthetic is unaffected.	<b>USAGE LEVEL:</b> Recommended addition levels are <b>0,5 % to 1,50%</b> in reinforced or not reinforced compounds, according to starting MFI and final desired flowability  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> PBT <b>MELTING POINT:</b> 220°C <b>COLOUR:</b> Off white
<b>AUSIMOLD PE-TS</b>	PC, ABS/PC, PBT, PC/PBT	AUSIMOLD PE-TS is an additive for techno-polymers to be processed at high temperatures.	AUSIMOLD PE-TS acts as process lubricant and mould release. At very high processing temperatures (280 - 350°C), the classical waxes show a poor thermal stability, a very quick coming-out and could lead to hydrolysis, specially in the PC, while AUSIMOLD PE-TS, thanks to his steric hindered structure, is thermal stable and features a calibrated coming-out. No hydrolysis effect and reduced thermal degradation occurs.	<b>USAGE LEVEL:</b> Recommended addition levels are: - <b>0,10 - 0,20%</b> in transparent PC - <b>0,25 - 0,50%</b> in coloured PC - <b>0,30 - 0,50%</b> in ABS/PC, PBT, PC/PBT  <b>PRODUCT FORM:</b> Powder <b>BASE:</b> Polyester of polyalcohol <b>MELTING POINT:</b> 60-70°C <b>COLOUR:</b> Off white
<b>AUSISTYR SRD</b>	ABS	AUSISTYR SRD improves the fluidity and "recovers" the mechanical properties of the ABS.	The AUSISTYR SRD, employed between 0,5% and 1% improves the fluidity and "recovers" the mechanical properties of the ABS, especially when the ABS is formulated with high percentages of SAN. Ameliorates the pigments dispersion and the surface gloss; improves the out-puts, reduces the pulsations, ameliorates the mold release.	<b>PRODUCT FORM:</b> Flowable white micro-beads (Sugar Size) <b>MELTING POINT:</b> 70-130°C



## Processing Aids / Mould Release

NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>AUSISTER P64</b>	PBT / PBT alloy	AUSISTER P64 is employed in PBT and PBT alloy to improve the nucleation and shorten the crystallization time.	The PBT /PBT alloy modified with the AUSISTER P64 shows the following features: - Shorter cycle time - Better mold filling - Better mold release - Dimensional stability of injected or extruded articles - Highest thermal and mechanical properties	<b>USAGE LEVEL:</b> Recommended addition levels from <b>0,5 %</b>  <b>PRODUCT FORM:</b> Powder <b>MELTING POINT:</b> >140°C <b>COLOUR:</b> White
<b>PROCASTER MB-NRC</b>	Reinforced PET only	PROCASTER MB-NRC is an additive for reinforced PET compounding, acting at the same time as nucleation promoter, impact modifier and mould release agent.	Attributes and benefits: - Excellent mould release - Reduced cycle time - Excellent mould filling - Significant improvement of Izod impact - Significant improvement of injected or extruded parts dimensional stability - It allows maximum HDT e.g. 440 - 455°F (227 - 235 °C) at 4% addition - It allows injection molding at 110 - 120°C mold temperature - Easy to handle and feed - Enhanced physical properties	<b>USAGE LEVEL:</b> Recommended addition levels from <b>3,5% up to 4,5%</b>  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Modified polyolefin <b>SOFTENING POINT:</b> 60-70°C <b>MELTING POINT:</b> 160-165°C <b>COLOUR:</b> White
<b>PROCASTER PW-40</b>	Reinforced PET	PROCASTER PW-40 is employed in reinforced PET to improve the nucleation and shorten the crystallization time, leading meanwhile to an efficient mould release.	The reinforced PET modified with the PROCASTER PW-40 features: - Shorter cycle time - Better mold filling - Strong mold release - Dimensional stability of injected or extruded articles - Highest thermal and mechanical properties	<b>USAGE LEVEL:</b> Recommended addition levels from <b>0,7% up to 0,9%</b> according PET/GF ratio  <b>PRODUCT FORM:</b> Powder <b>BASE:</b> Modified polyolefin <b>SOFTENING POINT:</b> 58- 420°C <b>MELTING POINT:</b> 160-165°C <b>COLOUR:</b> Pale yellow white
<b>PROCASTER PW-50B</b>	Reinforced PET	PROCASTER PW-50B is employed in reinforced PET to improve the nucleation and shorten the crystallization time, leading meanwhile to an efficient mould release.	The reinforced PET modified with the PROCASTER PW-50B features: - Shorter cycle time - Better mould filling - Strong mould release - Dimensional stability of injected or extruded articles - Highest thermal and mechanical properties.	<b>USAGE LEVEL:</b> Recommended addition levels from <b>0,6% up to 0,9%</b> according PET/GF ratio  <b>PRODUCT FORM:</b> Powder <b>DROP POINT / MELTING POINT:</b> >200 °C <b>COLOUR:</b> Pale yellow white
<b>PROCASTER MB-HDN</b>	PET	PROCASTER MB-HDN is employed in polyethylene-terephthalate (PET) to improve the crystallization rate and leads to an efficient mould release.	Compounding with PROCASTER MB-HDN ensures: - Short cycle time - Good mould release - Strong mould release - Improved dimensional stability of injected or extruded articles - Highest thermal and mechanical properties	<b>USAGE LEVEL:</b> 2,5%  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Polyolefin <b>ACTIVE CONC.:</b> 30% <b>MELTING POINT:</b> 155-160°C

## Processing Aids / Mould Release

NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>ALTER-PROC MF</b>	PET	ALTER-PROC MF dramatically effects the crystallization rate of PET/Glass Fibers compounds and leads to an efficient mould release.	Compounding with ALTER-PROC MF ensures: - Short cycle time - Good mould release - Strong mould release - Improved dimensional stability of injected or extruded articles - Excellent HDT values of PET/GF compounds, up to 220°C-225°C	<b>USAGE LEVEL:</b> 2,5% to 3%  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Polyolefin <b>ACTIVE CONC.:</b> 30% <b>MELTING POINT:</b> 155-160°C
<b>AUSISTER MB-PLB</b>	PBT reinforced and not reinforced, Compounds and not reinforced PET	AUSISTER MB-PLB is an additive for PBT and unfilled PET compounds. It acts as crystallization promoter and processing aid, improving injection cycle time, mould filling, mould release efficiency, dimensional stability of neat PET and PBT reinforced and not reinforced.	The use is suggested in extrusion/compounding in order to get an optimal distribution. Process conditions are the usual for PBT or PET/PBT. Compounds will show the following features: - Shorter cycle time - Optimal mould release - Optimal mould filling - Improved dimensional stability - No loss in I.V. value	<b>USAGE LEVEL:</b> Recommended addition levels: from <b>1,0% up to 1,5%</b>  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Modified polyolefin <b>MELTING POINT:</b> 160-165°C <b>COLOUR:</b> White
<b>PROCAPOL MB-LDN</b>	PP	PROCAPOL MB-LDN is employed in PP to improve the crystallization rate and lead to an efficient mould release.	PROCAPOL MB-LDN is a masterbatch additive for polypropylene which improves polymer crystallization rate, nucleation and crystallization degree in the melt-solid state transfer. Thermal features like HDT and crystallization peak are enhanced by almost 15% and mechanical performances as well.  Additionally side effects are: - Shorter cycle time in injection moulding - Faster mould release	<b>USAGE LEVEL:</b> Recommended addition levels: from <b>0,80% to 2,00%</b> according to the polypropylene grade  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Modified polyolefin <b>MELTING POINT:</b> 155-160°C <b>COLOUR:</b> White
<b>AUSIPROPYL G9</b>	Polyolefins and ABS compounding	AUSIPROPYL G9 is an additive for PP compounds and PP fibers which acts as processing aid, mould release and, partially, as antistatic agent.	As processing aid in polyolefines, especially in fibers extrusion, compounding and/or recycling, AUSIPROPYL G9 allows more regular outputs, better dispersion of the fillers and pigments, good lubrication for reduced die head pressure. As mould releaser and antistatic agent, especially in PP/ filled compounds, the AUSIPROPYL G9 allows reduced injection moulding cycles, improved dimensional stability, reduced resistivity (blended with an ethoxylated amine completes the antistaticity effect).  The AUSIPROPYL G9 can be mixed directly with the PP or PE granules, before the injection moulding, skipping the compounding step.	<b>USAGE LEVEL:</b> Recommended addition amounts are: - <b>0,10 - 0,15%</b> in PP fibers - <b>0,25 - 0,30%</b> in PP not filled compounds - <b>0,50 - 0,60%</b> in polyolefins filled compounds  <b>PRODUCT FORM:</b> Free flowing, dust free micro beads <b>BASE:</b> Monoester of polyalcol <b>MELTING POINT:</b> 68-70°C <b>COLOUR:</b> White
<b>MASTER P</b>	PA 6 and PA 6.6	MASTER P is a crystallizer, mould release, processing aid for both PA compounding and dry addition.	Advantages of PA additivated with MASTER P are: - Reduced injection cycles - Excellent mould release - Short cooling times - Molded parts without bubbles and bur - High dimensional stability and uniform shrinkages - Improved dispersion of fiberglass, fillers, pigments - Higher fluency at melted state and better mold filling	<b>USAGE LEVEL:</b> Recommended addition levels: - <b>1%</b> in PA 6 - <b>0,8%</b> in PA 6.6 - from <b>0,70 to 1%</b> in PA with high levels of GF, filling and flame retardant  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Polyamide <b>MELTING POINT:</b> >130°C <b>COLOUR:</b> Off white

NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>PROCANYL MB-NDL</b>	PA 6 and PA 6.6	PROCANYL MB-NDL is a crystallizer, mould release, processing aid for both PA compounding and dry additivation.	Advantages of PA additivated with PROCANYL MB-NDL are: - Reduced injection cycles - Excellent mould release - Short cooling times - Molded parts without bubbles and bur - High dimensional stability and uniform shrinkages - Improved dispersion of fiberglass, fillers, pigments - Higher fluency at melted state and better mold filling	<b>USAGE LEVEL:</b> Recommended addition levels - <b>1%</b> in PA 6 - <b>0,8%</b> in PA 6.6 - <b>1,2 - 1,5%</b> in PA with high levels of GF, filling and flame retardant  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Polyamide <b>MELTING POINT:</b> >130°C <b>COLOUR:</b> Off white
<b>AUSIPROPYL MB 2210</b>	Polyolefins	AUSIPROPYL MB 2210 is an additive for PP compounds, PP fibers and PE, which acts as processing aid, mould release and, as antistatic agent.	As mould releaser and antistatic agent, especially in PP/ filled compounds, the AUSIPROPYL MB 2210 allows: - Reduced injection moulding cycles - Improved dimensional stability - Reduced resistivity (blended with an ethoxylated amine completes the antistatic effect)	<b>USAGE LEVEL:</b> Recommended addition amounts are: - <b>0,10 - 0,15%</b> in PE - <b>0,25 - 0,30%</b> in PP not filled compounds - <b>0,40 - 0,50%</b> in PP filled compounds  <b>PRODUCT FORM:</b> Pellets <b>MELTING POINT:</b> 68-70°C <b>COLOUR:</b> White

NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>AUSISTER GF-1656</b>	PET, PBT	AUSISTER GF-1656 is a general purpose additive for PET and PBT resins.	Compounding with AUSISTER GF-1656 ensures: - Viscosity reduction of PET/PBT, during melt (not i.v.) - Reduction (30-40°C) of processing T - Improvement of fillers and pigments dispersion - Flux junction promotion - Cycle time reduction - More efficient mould release - Better surface slipping - Reduced abrasion on the metallic components of the extruders or injection moulding machines, especially in case of GF reinforcement.	<b>USAGE LEVEL:</b> - <b>0,25 - 0,75%</b> - <b>0,10 - 0,15%</b> as processing aid in fibers spinning  <b>PRODUCT FORM:</b> Pellets <b>ACTIVE CONC.:</b> 50% <b>MELTING POINT:</b> 165°C <b>BASE:</b> Polyolefin
<b>AUSINYL ULTRA DN</b>	PA 6 and PA 6.6	The AUSINYL ULTRA DN is a formulated additive package, specifically designed to dramatically improve the nucleation rate of the polyamides.	The AUSINYL ULTRA DN is a complete system of nucleating and mould release agents so that no further additives are needed for achieving a short cycle time, a good mould filling and a strong mould release.  Additional advantages that come from the use of AUSINYL ULTRA DN are: - Improved mechanical features thanks to a maximized nucleation (tensile and Flexural properties) - Improved dimensional stability in injection molding - Reduced shrinkage - Improved surface quality	<b>USAGE LEVEL:</b> Recommended addition levels - <b>0,10 - 0,15%</b> in the PA6.6 - <b>0,15 - 0,30%</b> in the PA6  <b>PRODUCT FORM:</b> Powder <b>MELTING POINT:</b> 145-170°C <b>COLOUR:</b> Off White
<b>AUSINYL DN AUSINYL M-DN</b>	PA 6 and PA 6.6	AUSINYL DN dramatically affects the crystallization rate of POLYAMIDE compounds and leads to an efficient mould release. AUSINYL M-DN is a complete package system of nucleating and mould release agents. No other additives are needed.	Compounding with AUSINYL ensures: - Short cycle time - Good mould release - Strong mould release - Good flow of molten polymer - Improved dimensional stability of injected extruded articles	<b>USAGE LEVEL:</b> - <b>0,15 - 0,20%</b> in PA6.6 for AUSINYL DN - <b>0,30 - 0,50%</b> in PA6 for AUSINYL DN - <b>0,50%</b> in PA6.6 - <b>1%</b> in PA6 for AUSINYL M-DN  <b>PRODUCT FORM:</b> Powder / Pellets / Masterbatch in PA6 <b>ACTIVE CONC.:</b> 30-100% <b>MELTING POINT:</b> 160-180°C <b>BASE:</b> Polyamide
<b>POLINYL LD</b>	PA	POLINYL LD is a strong mould release for PA.	POLINYL LD is a product specifically designed to be used <b>in combination with the AUSINYL DN nucleant agent</b> for promoting adhesion between the chemicals in powder and the polyamide pellet surface.  As further performance, it enhances the mould release efficiency without formation of any plate out on the mold or surface aesthetical defects. The pellet surface treated with the POLINYL LD and tumble mixed with the AUSINYL DN behaves as a standard pellet, completely dry and dust free, suitable for any injection molding process.	<b>USAGE LEVEL:</b> Recommended addition levels are 0,10% to 0,15% onto the polyamide  <b>PRODUCT FORM:</b> Pellets <b>MELTING POINT:</b> 4°C / Cloud point at -20°C <b>COLOUR:</b> Transparent Pale yellow
<b>POLVERE SN</b>	ALL POLYMERS	POLVERE SN is a complete system: nucleating and mold release agent.	Thanks to the physical form, POLVERE SN permits a very easy addition, the dosage of a sole product, a lower possibility of mistakes and to obtain granules not greasy, not dusty, free flowing, transportable by pneumatic systems, without obstruction of filters, wind-cones, etc.	<b>USAGE LEVEL:</b> Recommended addition levels are 0,1% to 1%  <b>PRODUCT FORM:</b> Powder <b>COLOUR:</b> Off white

## Chain Extenders & I.V. Enhancers

NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>AUSIPOL PP-30</b>	PET	<b>I.V. ENHANCERS.</b> AUSIPOL PP-30 is an additive expressly designed for PET.	AUSIPOL PP-30 works as i.v. enhancer agent, through the extrusion process. It is suitable for PET no transparent (Stable fibers, compounds, ect.). AUSIPOL PP-30 must be employed as normal masterbatch, directly in the hopper of the extruder, never dried with PET.  For a complete reaction, well dried PET is required. Process temperature about 270-280°C and residence time longer than 1 minute are required.	<b>USAGE LEVEL:</b> 0,05 - 1%  <b>PRODUCT FORM:</b> Masterbatch <b>BASE:</b> Polypropylene <b>ACTIVE CONC.:</b> 30% <b>MELTING POINT:</b> 165°C
<b>REGRANYL MB-25</b>	PA 6, PA 6.6, PA 11, PA 12	REGRANYL MB-25 is a chain extender for virgin PA and recycled PA.	1% of REGRANYL MB-25 increases viscosity of PA 6 and PA 6.6, both virgin and reinforced with glass fiber by 0,5 points (as example from 2,2 to 2,7, or from 2,7 to 3,2, or from 3,5 to 4). Used at 1% in PA 12 and PA 11 the change of viscosity is much more evident. In virgin PA mechanical features increase while in recycled PA we can notice only an increase of viscosity but not of mechanical features. PA with REGRANYL MB-25 shows an homogeneous rheology.	<b>USAGE LEVEL:</b> Recommended between <b>0,5 and 2%</b> according to the PA features and the final desired effect  <b>PRODUCT FORM:</b> Pellets <b>MELTING POINT:</b> >90°C <b>COLOUR:</b> Beige
<b>REGRANYL 90</b>	PA	REGRANYL 90 is an additive for PA-6, PA-66, PA-12 and copolymers. It works as chain extender and re-polymerization agent, by reactive extrusion process.	When compounded in polyamide, REGRANYL 90 allows: - To increase viscosity of the polymer and the relatives mechanical properties; - To increase the pressure of the die	<b>USAGE LEVEL:</b> <b>0,5%</b> or according to the requirement of process  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Polyester or Polycarbosilic acid <b>ACTIVE CONC.:</b> 95-100% <b>MELTING POINT:</b> 95-105°C
<b>REGRANYL MB-90B</b>	Polyamides, PA6, PA6.6, PA11, PA12	Chain extender for PA6, PA6.6, PA11, PA12.	Active chemical masterbatch, suitable in reactive extrusion for polyamide viscosity enhancement, effective to keep or to improve the viscosity and molecular weight during melt state processing. It is suitable for no transparent applications (textiles, compounds, etc.) or transparent sheets and films.	<b>USAGE LEVEL:</b> Recommended addition levels are: <b>from 0,2% to 2%</b> according to concentration required by user process, raw materials quality and desired melt viscosity to be achieved  <b>PRODUCT FORM:</b> Pellets <b>MELTING POINT:</b> 60°C <b>COLOUR:</b> White
<b>REGRATEX MB-D</b>	PET	<b>I.V. ENHANCERS.</b> REGRATEX MB-D is suitable for both homo or copolymer PET, virgin or recycled.	REGRATEX MB-D is the best solution to increase intrinsic viscosity of PET, during recycling process. In recycled PET the addition of 0,2% of REGRATEX MB-D will increase I.V. from 0,64 to 0,74-0,79 dl/gr (0,10-0,15 points); a dosage of 0,5% will increase I.V. to 0,85-0,90 dl/gr (0,20-0,25 points).	<b>USAGE LEVEL:</b> <b>0,1 to 1%</b>  <b>PRODUCT FORM:</b> Masterbatch <b>BASE:</b> Co-polyester <b>ACTIVE CONC.:</b> 30% <b>MELTING POINT:</b> 230°C

## Chain Extenders & I.V. Enhancers

NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>PROCAPOL DMF</b>	PE / PBT	PROCAPOL DMF is an additive designed for unfilled PET and filled or unfilled PBT.	PROCAPOL DMF is a multifunctional additive that allows: - To imantain i.v. characteristics, avoiding the loss due to the process - Ensure an excellent mould-release and short injection cycles - Leads to parts featuring excellent mechanical and aesthetical characteristics  PROCAPOL DMF is suitable for not transparent compounds and it doesn't contain nucleant in order to keep amorphous state.	<b>USAGE LEVEL:</b> <b>0,3 - 1%</b>  <b>PRODUCT FORM:</b> Masterbatch <b>BASE:</b> Polypropylene <b>ACTIVE CONC.:</b> 30% <b>MELTING POINT:</b> 165°C

NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>AUSINOX BC-1714</b>	PA 6, PA 6.6	The AUSINOX BC-1714 is an additive antioxidant specially recommended in PA compounding, recycling, etc.	The antioxidant effect featured by the AUSINOX BC-1714 avoids the yellowing, preserving the natural colour and it is active in preventing the polyamide from the loss of mechanical characteristics due to the thermal stress during processing.  The best performances of AUSINOX BC-1714 are featured in the most critical situations, where the yellowness formation is typical of compounds, as: - In of PA 6.6 recycling - Compounding or recycling of reinforced PA 6.6 / Glass Fiber  In all situation, the natural colour of the Polyamides is assured and preserved.	<b>USAGE LEVEL:</b> Recommended addition levels are: - <b>0,15 - 0,30%</b> in PA6 - <b>0,25 - 0,40%</b> in PA6.6  <b>PRODUCT FORM:</b> Powder <b>MELTING POINT:</b> >70°C <b>COLOUR:</b> Off white
<b>AUSINOX BN-2551</b>	PA	AUSINOX BN-2551 is a stabilizer especially recommended in PA compounding.	The effect offered by the AUSINOX BN-2551 allows to keep the mechanical characteristics of the PA particles submitted to continuous thermal cycles (i.e. automotive components, electrical appliances, etc...)  <b>AUSINOX BN-2551 is recommended for natural or light coloured PA compounds. In the black or dark coloured PA compounds, the AUSISTAB BTN is more suitable.</b> In all situation, the natural colour of the Polyamides is assured and preserved.	<b>USAGE LEVEL:</b> Recommended addition levels are: - <b>0,4 - 0,5%</b> in PA6 - <b>0,4 - 0,6%</b> in PA6.6  <b>PRODUCT FORM:</b> Powder <b>MELTING POINT:</b> 150-170°C <b>COLOUR:</b> Off white
<b>AUSINOX PA-2789</b>	PA	AUSINOX PA-2789 is a stabilizer especially recommended in Polyamides, virgin and recycled.	The effect offered by the AUSINOX PA-2789 allows to avoid polymer yellowing in neutral polyamides and, eventually, to recover neutral colour in partially oxidized PA6 and PA6.6. The stabilizer can be used both in compounding or during the injection moulding step.  <b>AUSINOX PA-2789 is totally compatible except in the case copper salts are employed. In such case a purple coloration rises.</b>	<b>USAGE LEVEL:</b> Recommended addition levels are: - <b>0,80 - 1,20%</b> in PA6 - <b>0,80 - 1,20%</b> in PA6 / glass fiber - <b>1,00 - 1,50%</b> in PA6.6 - <b>1,00 - 1,50%</b> in PA6.6 / glass fiber  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Polyamide 6 <b>MELTING POINT:</b> 210-220°C <b>COLOUR:</b> Off white
<b>AUSINOX MB-VPL</b>	PP virgin and recycled	AUSINOX MB-VPL is a process stabilizer especially recommended in Polypropylene, virgin and recycled.	The employing of the AUSINOX MB-VPL avoids polymer yellowing in neutral and filled polymer and, eventually, the loss of mechanical properties. The stabilizer can be used both in compounding or during the injection moulding step.	
<b>AUSISTAB MB-LN</b>	PET	AUSISTAB MB LN is employed as process stabilizer for PET and recycled PET.	AUSISTAB MB LN helps to: - Making molecular weights more homogeneous - Improving the end product calibration - Decreasing the plate out effect on calenders - Improving sheet depth filling - Reducing crystallization  It also helps fibrillation resistance along the extrusion flow in both straps and sheet.	<b>USAGE LEVEL:</b> Recommended addition levels 1%  <b>PRODUCT FORM:</b> Pellets <b>BASE:</b> Polyolefin <b>MELTING POINT:</b> 160°C <b>COLOUR:</b> White

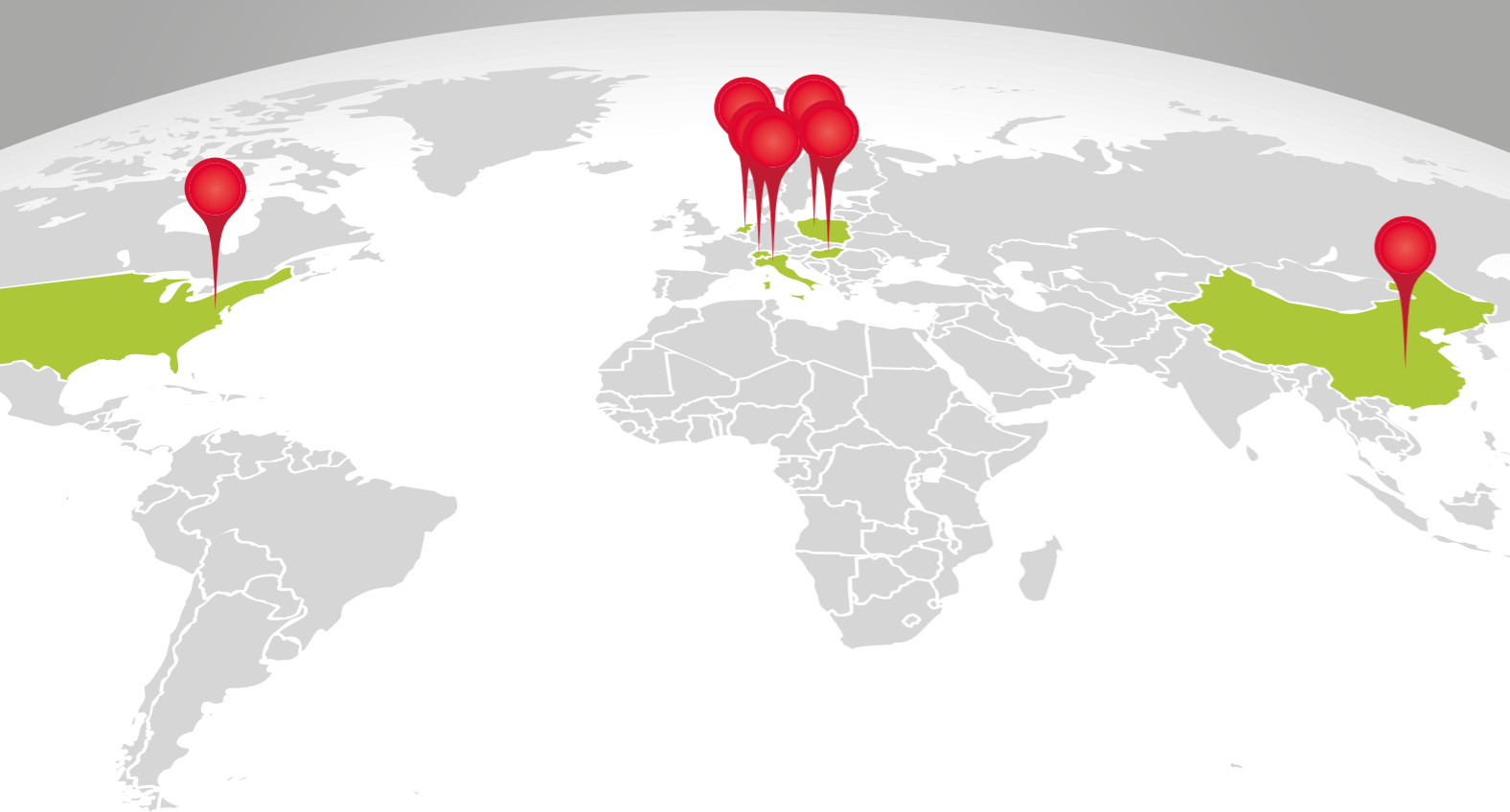
NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>AUSISTAB BTN</b>	PA	AUSISTAB BTN is a stabilizer recommended in polyamides compounding.	The stabilization effect offered by the AUSISTAB BTN allows to maintain the mechanical characteristics of the PA products submitted to continuous thermal cycles (i.e. automotive components, electrical appliances, etc...). AUSISTAB BTN is recommended in black or dark coloured PA compounds. In natural or light coloured PA Compounds the AUSINOX BN-2551 is more suitable.	<b>USAGE LEVEL:</b> Recommended addition levels <b>from 0,25% up to 0,6%</b> according to the result desired  <b>PRODUCT FORM:</b> Powder <b>BASE:</b> Polypropylene <b>MELTING POINT:</b> 110-140°C <b>COLOUR:</b> Light green / Blue
<b>AUSISTAB MB-BTN</b>	All polyamides	AUSISTAB MB-BTN is a masterbatch stabilizer recommended in polyamides compounding.	The stabilizing effect performed by the AUSISTAB MB-BTN leads to a very efficient protection of the mechanical properties due to the heat aging. It is mainly employed in reinforced as and neat PA6 and PA66 as well as in PA11, PA12 and PA copolymers.  The use of AUSISTAB MB-BTN prevents the polyamides which stand high temperatures from embrittlement and overall mechanical properties failure. It also leads to easier processing during extrusion/injection molding. Thanks to the granular shape, it is a completely dust free products which allows an optimal use with limited concerns about the working environment safety and production changeover.	<b>USAGE LEVEL:</b> Recommended addition levels <b>from 0,5% up to 1,2%</b> according to the desired result  <b>PRODUCT FORM:</b> Powder <b>MELTING POINT:</b> 95-115°C <b>COLOUR:</b> Light green / Blue



NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
<b>VALPOL GP-4350</b>	All ETP	<b>NOT IMPACTING ON MFI</b>  VALPOL GP-4350 is an additive "General Purpose" suitable for all technopolymers, blends, highly filled compounds, including polymers which must be processed at high temperature.	It allows a reduction (35-40°C) in working temperatures, with advantages in the thermals' life of the polymers (particularly POM, WPC Wood Plastic Composites, heat sensitive materials...). VALPOL GP-4350 acts as processing aid, since it avoids the extrusion problems that often occur especially when extruding polymers featuring un-homogeneous or "disordered" viscosities (in fiber extrusion induces breakages).  Improves the intermeshing between different polymers (ABS/PC, PC/PBT, etc...). Improves the pigments, fillers and fibers dispersion. Promotes the melt flux junction, gets better mould release effect, reduces the cycles time.	<b>USAGE LEVEL:</b> Recommended addition levels are: - <b>0,25 - 0,50%</b> as processing aid and mould releaser - <b>0,30 - 0,40%</b> as dispersing agent at high filler concentration - <b>0,60 - 1,00%</b> as surface slipping promoter  <b>PRODUCT FORM:</b> Pellet <b>MELTING POINT:</b> 130°C <b>COLOUR:</b> White
<b>VERSAPOL GP-446</b>	All Polymers	<b>NOT IMPACTING ON MFI</b>  VERSAPOL GP-446 is a GP ("General Purpose") additive for all polymers.	When compounded into techno-polymers: - Acts an internal lubricant and mould release agent and improves the pigments or fillers dispersion - Promotes the Flux Junction, even in case of high viscosity polymers, reducing the cycle times - Eliminates all tensions surface, improving the transparency and the HDT - In the case of ABS/PC and PC/PBT alloys it improves the intermeshing between the two or more polymer phases.  It allows a significant reduction (30-40°C) of the working temperatures, leading to an advantage in the flame retarded compounds. For this reason the product is well recommended in flame retardant masterbatches preparations (Red Phosporous, etc...).	<b>USAGE LEVEL:</b> Recommended addition levels are: - <b>0,1 - 0,50%</b> as processing aid, dispersing agent, mould releaser - <b>0,50 - 1,0%</b> as dispersing agent for filler and pigments  <b>PRODUCT FORM:</b> Liquid <b>MELTING POINT:</b> Cloud point -40°C <b>COLOUR:</b> Clear
<b>VERSAPOL GP-586</b>	PET	<b>NOT IMPACTING ON MFI</b>  VERSAPOL GP-586 is particularly suitable for PET for honeycombb sheets.	When compounded into techno-polymers: - Acts an internal lubricant and mould release agent and improves dispersion; - Promotes the Flux Junction, even in case of high viscosity polymers, reducing the cycle times; - Eliminates all tension in the surface, improving the transparency and the HDT;  VERSAPOL GP-586 allows a significant reduction (30-40°C) of the working temperatures, leading to an advantages in the flame retarded compounds. For this reason the product is well recommended in flame retardant masterbatches preparations (Red Phosporous, etc...).	<b>USAGE LEVEL:</b> Recommended addition levels are: - <b>0,1-0,50%</b> as processing aid, dispersing agent, mould releaser - <b>0,50-1,0%</b> as dispersing agent for filler and pigments  <b>PRODUCT FORM:</b> Liquid <b>MELTING POINT:</b> Cloud point -40°C <b>COLOUR:</b> Clear
<b>VERSAPOL MB-PP20</b>	PP	VERSAPOL MB PP20 is employed as processing aid for PP when it is necessary to achieve an internal lubrication.	The use of Versapol MB PP20 helps the production process by keepin g the finished product surface esthetically unchanged. Furthermore it: - Increases intermeshing for polymer alloy - Improves internal lubrication - Good mould release agent - Best dispersion of Pigment, Fillers, Flame retardants - Increases transparency of Polymer - Improves HDT of Polymer - Decreases the melt viscosity at melting phase - Permits the Reduction (20~30'c) in working temperature - No need other lubricants such as Waxes or Esters - Reduces the surface friction Value - High surface quality or surface smooth	<b>USAGE LEVEL:</b> Recommended between <b>1% and 4%</b>  <b>PRODUCT FORM:</b> Pellets <b>MELTING POINT:</b> 160°C <b>COLOUR:</b> White

FAMILY PRODUCT	NAME	POLYMER REF.	DESCRIPTION	EFFECTS	TECHNICAL DATAS
Anti-block	<b>PET A-BLOCK 01</b>	PET	PET A-BLOCK 01 is an anti-block masterbatch, developed specifically for PET. It's a mixture of selected organic and inorganic additives, meticulously dispersed in PET.	PET A-BLOCK 01 is a studied formulation of inorganic and organic antiblock additives. With optimized additive particle size, extremely high superficial area and great homogenous dispersion in PET matrix, PET A-BLOCK guarantees a perfect antiblock effect for PET.	
	<b>PET A-BLOCK 02</b>	PET	PET A-BLOCK 02 is an anti-block masterbatch, developed specifically for PET. It's a mixture of selected organic and inorganic additives, meticulously dispersed in PET.	PET A-BLOCK 02 is a studied formulation of inorganic and organic antiblock additives. With optimized additive particle size, extremely high superficial area and great homogenous dispersion in PET matrix, PET A-BLOCK guarantees a perfect antiblock effect for PET.	
Flow Enhancer	<b>AUSIFLUID 419</b>	PP	AUSIFLUID 419 is a reactive additive designed for PP Homopolymers.	AUSIFLUID 419 is a reactive additive designed for PP Homopolymers which acts as melt viscosity enhancer (MFI Improver).	<b>USAGE LEVEL:</b> The metering ranges between <b>0,2 and 1%</b>  <b>PRODUCT FORM:</b> Liquid <b>BASE:</b> Peroxides based system <b>COLOUR:</b> Clear
	<b>AUSISTRAP AF-DDP</b>	PE	AUSISTRAP AF-DDP is a special multifunctional additive for not transparent PET packaging straps production.	It is helpful: - Increasing the fibrillation resistance along the extrusion flow; - Enhancing mechanical features of strap at very cold conditions; - Improving the pressure on the extruder die, the melt strength; - Improving all mechanical properties, particularly the impact strength and the tear resistance.	<b>USAGE LEVEL:</b> Recommended addition levels <b>from 1% up to 1,5%</b> according to strap thickness and PET starting I.V.  <b>MELTING POINT:</b> 160-165°C <b>COLOUR:</b> White

# Where We Are



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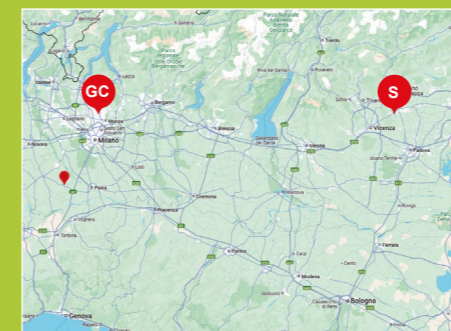
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**SPECIAL PRODUCTS FOR**

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