



## Product Portfolio

# Plastics

Austria

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Specialities in Motion

## Engineering polymers

| PRODUCT | BRAND NAME   | SUPPLIER   | PRODUCT DESCRIPTION  |
|---------|--|--|--|
| AMAB    | <b>ANOBEX™</b>   | MSM Poly LLC,<br>USA                               | High gas barrier resin with outstanding chemical resistance for medical devices, pharmaceutical, cosmetic and food packaging as well as household applications               |
| LCP     | <b>SUMIKASUPER®</b>  | Sumitomo<br>Chemical<br>Europe,<br>Belgium         | Liquid Crystal Polymer with high temperature resistance (V0 at 0,2mm) and excellent mechanical properties for electronic and automotive industry                             |
| PES     | <b>SUMIKAEXCEL®</b>  | Sumitomo<br>Chemical<br>Europe,<br>Belgium         | Polyethersulfone, heat, hot water and chemical resistant polymer offering transparency, dimension stability and creep strength   |
| TPE     | <b>VERSAFLEX™</b><br><b>ONFLEX™</b><br><b>VERSALLOY™</b><br><b>DYNALLOY™</b><br><b>DYNAFLEX™</b> | GLS<br>Thermoplastics<br>Elastomers,<br>USA        | TPE Alloys<br>TPE Compounds<br>Elastomer Blends<br>OBC Compounds<br>TPE Compounds  |
| TPU     | <b>ESTANE®</b><br><b>PEARLTHANE™</b>   | Lubrizol<br>Advanced<br>Materials,<br>USA & Europe | Soft and stiff TPU for all types of injection, extrusion and coating. Specialities like high heat, flame retardant, transparent and easy extrudable grades                   |
| TPU     | <b>ESTALOC™</b><br><b>ISOPLAST®</b>  | Lubrizol<br>Advanced<br>Materials,<br>USA & Europe | Stiff TPU unfilled and filled with long glass fibres with high e-modulus, excellent chemical resistance, dimension stability and mechanical properties                       |
| TPU     | <b>PEARLCOAT™</b>  | Lubrizol<br>Advanced<br>Materials,<br>Europe       | Range of TPU's used for melt coating process soft and non-tacky also with food approval  |
| TPU     | <b>PEARLSTICK™</b>   | Lubrizol<br>Advanced<br>Materials,<br>Europe       | Former Estane Resin grades recently re-named as Pearlstick. Soluble TPU for ink, binder, synthetic leather, lacquers   |
| TPV     | <b>ELASTOPRENE®</b>  | Elastorsa,<br>Spain                                | High-performance elastomers which combine the flexibility of rubber and processing of thermoplastics. Applications range from automotive to industrial and consumer products |



## Engineering polymers

| PRODUCT                        | BRAND NAME                                       | SUPPLIER              | PRODUCT DESCRIPTION  |
|--------------------------------|--|-----------------------|--|
| UHMW-PE                        | <b>SUNFINE®</b>                                  | Asahi Kasei,<br>Japan | UHMW-PE, standard grades as well as a transparent grade for compression moulding and RAM-extrusion   |
| PEEK                           | <b>PrimeTec® PEEK</b>                            | VELOX,<br>Germany     | Polyether ether ketone (PEEK), a high performance thermoplastic. The complete range with the different melt viscosities, in form of granules and powders, unfilled as well as compounded with a variety of fillers and customised colours  |
| mPPE                           | <b>XYRON™</b>                                    | Asahi Kasei,<br>Japan | Modified polyphenylene ether, PPE blends with polystyrene and other polymers, provide superior heat resistance, flame retardance, dimensional stability and mechanical properties, UL listing and drinking water approvals for selected grades, for the electrical/electronic applications and for the components for water machines |
| PEKK                           | <b>KEPSTAN®</b>                                  | Arkema,<br>France     | High-performance thermoplastic material based on polyether ketone ketone, semi-crystalline as well as nearly amorphous grades, with excellent thermal and mechanical properties in form of granules and powders  |
| PPS, PPA,<br>PVDF, PA,<br>PEBA | <b>XECARB®<br/>XEBRID<br/>XEARAM<br/>XEGLOSS</b> | Xenia,<br>Italy       | A product group with wide range of thermoplastic base resins, reinforced with carbon, aramid, glass or carbon & glass fibres. High mechanical properties and lightweight provide innovative solutions in demanding applications such as metal replacement, advanced sports products, industrial products and tools etc.              |



## Medical polymers

| PRODUCT                      | BRAND NAME                                 | SUPPLIER                                 | PRODUCT DESCRIPTION   |
|------------------------------|--|--|---|
| AMAB                         | <b>ANOBEX™</b>                             | MSM Poly LLC,<br>USA                     | High gas barrier resin with outstanding chemical resistance for medical devices, pharmaceutical, cosmetic and food packaging as well as household applications  |
| Medical Compounds            |  | Innovative Polymer Compounds,<br>Ireland | Customised medical compounds based on PP, HDPE, ABS, PC ABS, PC, PEBA, PA11, PA12, TPU, PPSU using a wide range of additives<br>ISO 13485 certified   |
| TPE                          | <b>VERSAFLEX™</b><br><b>DYNAFLEX™</b>      | GLS Thermoplastics Elastomers,<br>USA    | TPE especially designed for healthcare applications;<br>SEBS-based TPEs in a shore hardness range from 28A to 95A   |
| TPE                          | <b>VERSALLOY™</b><br><b>SANTOPRENE™</b>    | GLS Thermoplastics Elastomers,<br>USA    | TPVs provide excellent chemical and temperature resistance and compliance with medical market standards   |
| PARA                         | <b>IXEF®</b>                               | Solvay,<br>Belgium                       | 50% glass fibre reinforced; high strength and rigidly; excellent for metal replacement (surgery tools / single use instruments), gamma stabilised colours available   |
| Long Chain PA                | <b>RILSAN® CLEAR MED</b>                   | Arkema,<br>France                        | Rilsan® Clear polyamides are transparent, tough, lightweight and are characterised by the ease of processing. These amorphous polyamides are more flexible than other transparent solutions.<br>Rilsan® Clear G170 MED offers a high temperature resistance |
| Polyamide 11<br>Polyamide 12 | <b>RILSAN® MED</b><br><b>RILSAMID® MED</b> | Arkema,<br>France                        | Specialty polyamides for medical tubing and balloons for which burst strength is primary consideration. These materials can be blended with Pebax® MED to customise final properties  |





Specialities in Motion

## Medical polymers

| PRODUCT         | BRAND NAME                 | SUPPLIER                                  | PRODUCT DESCRIPTION  |
|-----------------|----------------------------|---|--|
| TPE-A           | <b>PEBAX® MED</b>          | Arkema, France                            | Thermoplastic elastomers with excellent mechanical and chemical resistance. Pebax® MED grades have excellent “pushability”, are available in a wide range of hardnesses and display extreme “resilience”   |
| TPU resins      | <b>THERMEDICS™ Medical</b> | Lubrizol Advanced Materials, USA & Europe | <p>Special medical-grade aliphatic and aromatic thermoplastic polyurethanes which can be processed by dissolving or by extrusion and injection moulding</p> <p>TPU’s are the materials of choice for indwelling catheters as they provide excellent patient comfort as they soften in the body</p> <p>Thermedics range is available from very soft to rigid, and also in radiopaque series</p> |
| TPU resins      | <b>ISOPLAST®</b>           | Lubrizol Advanced Materials, USA & Europe | Extremely hard TPU – very good transparency, very good chemical resistance, dimensional stability, mechanical properties and bonding   |
| TPU resins      | <b>PELLETHANE®</b>         | Lubrizol Advanced Materials, USA & Europe | Polyether aromatic medical grade TPUs from 80A to 75D shore hardness   |
| TPU tubing      | <b>THERMEDICS™</b>         | Lubrizol Advanced Materials, USA & Europe | Customised single and multi-lumen medical tubing in Thermedics™ TPU materials (Carbothane®, Tecoflex®, Tecothane® and Tecophilic®)   |
| PP<br>PE<br>EVA | <b>Repsol Healthcare®</b>  | Repsol, Spain                             | Medical polyolefins for pharmaceutical packaging and medical devices   |





Specialities in Motion

## Medical polymers

| PRODUCT            | BRAND NAME               | SUPPLIER                | PRODUCT DESCRIPTION  |
|--------------------|--------------------------|-------------------------|--|
| PC                 | <b>CALIBRE™</b>          | Trinseo,<br>Switzerland | CALIBRE™ polycarbonate grades (available in opaque and transparent) are suitable for disposable and multi-use medical products. All grades have been tested to ISO 10993 standard  |
| PC                 | <b>CALIBRE™ MEGARAD™</b> | Trinseo,<br>Switzerland | CALIBRE™ MEGARAD™ grades have been optimised for gamma sterilisation and show a better colour stability after sterilisation. All grades have been tested to ISO 10993 standard   |
| PC/ABS &<br>PC/PET | <b>EMERGE™</b>           | Trinseo,<br>Switzerland | <p>EMERGE™ blends are PC alloys with excellent flow characteristics and aesthetic appearance, ideal for medical device housings.</p> <p>EMERGE™ PC / PET blends additionally offer outstanding chemical resistance, e.g. against disinfectants and cleaning agents.</p> <p>All grades have been tested to ISO 10993 standard</p>   |
| ABS                | <b>MAGNUM™ MED</b>       | Trinseo,<br>Switzerland | <p>MAGNUM™ ABS is very easy to process and has a highly attractive, aesthetic surface (opaque).</p> <p>MAGNUM™ ABS 8391 MED has been tested to ISO 10993 standard</p>  |
| GPPS               | <b>STYRON™ MED</b>       | Trinseo,<br>Switzerland | <p>STYRON™ 2678 MED is a general purpose Polystyrene Resin. This high flow injection moulding grade can be used for medical applications like petri dishes, pipettes as well as packaging items and housings.</p> <p>The biocompatibility has been tested according to ISO 10993 standards, and the material complies with European and United States food contact regulations</p> |



## Transparent polymers

| PRODUCT    | BRAND NAME                   | SUPPLIER            | PRODUCT DESCRIPTION   |
|------------|------------------------------|---------------------|---|
| PET        | <b>SkyPET-BR<sup>®</sup></b> | SK Chemicals, Korea | A low content CHDM (Cyclohexanedimethanol) modified copolyester resin for extruded sheets, refillable large size bottles and packaging.                                   |
| PETG       | <b>ECOZEN<sup>®</sup></b>    | SK Chemicals, Korea | BPA-free high distortion temperature (HDT)-PETG with a fourth bio-based monomer, provides very good optics and high chemical resistance for high temperature applications |
| PETG, PCTG | <b>SKYGREEN<sup>®</sup></b>  | SK Chemicals, Korea | PETG and PCTG offering outstanding clarity and colour as well as an excellent chemical resistance.  |
| SBC        | <b>ASAFLEX<sup>™</sup></b>   | Asahi Kasei, Japan  | Styrene Butadiene Copolymer for transparent and high impact applications  |

## Purge compounds

| PRODUCT         | BRAND NAME                   | SUPPLIER           | PRODUCT DESCRIPTION  |
|-----------------|------------------------------|--------------------|--|
| Purge compounds | <b>ASACLEAN<sup>™</sup></b>  | Asahi Kasei, Japan | Purge compound for extrusion and injection moulding equipment                              |
| Purge compounds | <b>CleanPlus<sup>®</sup></b> | VELOX, Germany     | Effective and high efficient purge compound for extrusion and injection moulding equipment |





Specialities in Motion

## Others

| PRODUCT           | BRAND NAME                  | SUPPLIER                         | PRODUCT DESCRIPTION   |
|-------------------|-----------------------------|----------------------------------|---|
| Tie layer         | <b>BONDYRAM® TL</b>         | Polyram, Israel                  | MAH modified PP, LLDPE and HDPE as a tie-layer resin in multilayer barrier packaging and pipes<br><br><b>NEW:</b> Tie Layer for PET applications  |
| Regranulates      |                             | Various                          | Recycled polymers: HDPE, PP, PS, PMMA, ABS, PC/ABS, PC and other on request   |
| PETG, TPEE, PLA   | <b>SKYPLETE</b>             | SK Chemical, Korea               | The SKYPLETE range contains eco-friendly and high performance materials for compounders and filament producers. The materials are based on PLA, copolyesters such as PETG and TPEE as well as copolyester compounds |
| Hopper            | <b>V-12 Hopper</b>          | VELOX, Germany                   | New innovative hopper for an efficient dosage of material & limited-lot production  |
| Lubricant         | <b>STRUKTOL®</b>            | STRUKTOL Company of America, USA | Lubricants for cycle time reduction   |
| SEBS              | <b>TUFTEC™</b>              | Asahi Kasei, Japan               | SEBS & SBBS for PE/PS and PP/PS compatibilisation   |
| SBS               | <b>TUFPRENE™</b>            | Asahi Kasei, Japan               | Impact modifier and compatibiliser for polystyrene  |
| Various compounds | <b>PrimeTec® customised</b> | VELOX, Germany                   | Taylor-made engineering plastics compounds  |

