MEDICAL POLYMER SOLUTIONS
# Biocompatible Polymers

## Rigid Materials Properties

<table>
<thead>
<tr>
<th>Product Group</th>
<th>Trade Name</th>
<th>Properties</th>
<th>Sterilisation</th>
<th>Special Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS</td>
<td>MAGNUM™ MED</td>
<td>Impact Strength:</td>
<td>EtO:</td>
<td>Unique colour advantage ABS</td>
</tr>
<tr>
<td></td>
<td>TOPAS™</td>
<td>Temperature Resistance:</td>
<td>Gamma:</td>
<td>Optical, purity, water barrier</td>
</tr>
<tr>
<td></td>
<td>TOPAS BLEND™</td>
<td>Transparency:</td>
<td>Steam:</td>
<td>2500 autoclave cycles for medical devices</td>
</tr>
<tr>
<td>E-TPU</td>
<td>ISOPLAST™</td>
<td>Impact Strength:</td>
<td>EtO:</td>
<td>Flexibility, strength, chemical resistance and non-restricted for i-body applications</td>
</tr>
<tr>
<td>Modified PE</td>
<td>Orvec® 18300</td>
<td>Temperature Resistance:</td>
<td>Gamma:</td>
<td>Ti layer resin for catheter application</td>
</tr>
<tr>
<td>PA Transparent</td>
<td>RILSAN® CLEAR MED</td>
<td>Transparency:</td>
<td>Steam:</td>
<td>2500 autoclave cycles for medical devices</td>
</tr>
<tr>
<td>PC</td>
<td>CALIBRE™, CALIBRE™ MEGARAD™</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Grades optimised for gamma sterilisation available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Steam:</td>
<td></td>
</tr>
<tr>
<td>PA12</td>
<td>RILSAN® MED, RILSAN® MD</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Customised for medical mouldings. Chemical resistance vs. cleaners &amp; disinfectants</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
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<td></td>
<td>Steam:</td>
<td></td>
</tr>
<tr>
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<td></td>
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</tr>
<tr>
<td>PC Glass fibre</td>
<td>CALIBRE™</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>High stiffness</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Steam:</td>
<td></td>
</tr>
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</tr>
<tr>
<td>PC/ABS Blends</td>
<td>EMERGE™</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Customised for home health care and hand held devices</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Steam:</td>
<td></td>
</tr>
<tr>
<td>PC/PET Blends</td>
<td>EMERGE™</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Customised for medical mouldings. Chemical resistance vs. cleaners &amp; disinfectants</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Steam:</td>
<td></td>
</tr>
<tr>
<td>PE</td>
<td>REPSOL HEALTHCARE®</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Combination of stiffness &amp; elasticity</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Steam:</td>
<td></td>
</tr>
<tr>
<td>PETG</td>
<td>SKYGREEN® S2008</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>High clarity with excellent chem. resistance &amp; impact strength</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Steam:</td>
<td></td>
</tr>
<tr>
<td>PP</td>
<td>REPSOL HEALTHCARE®</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Durable, good &amp; overall chemical resistance</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
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</tr>
<tr>
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<td></td>
<td>Steam:</td>
<td></td>
</tr>
<tr>
<td>PS</td>
<td>STYRON® MED</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Stiffness and transparency</td>
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<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
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</tr>
<tr>
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<td>Steam:</td>
<td></td>
</tr>
<tr>
<td>PVDF</td>
<td>Kynar® MED</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Excellent chemical resistance, inertness and purity, low coefficient of friction, low biofilm growth, low permeability</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>Steam:</td>
<td></td>
</tr>
<tr>
<td>SBC</td>
<td>ASAFLEX™</td>
<td>Temperature Resistance:</td>
<td>EtO:</td>
<td>Combination of transparency &amp; impact strength</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gamma:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Steam:</td>
<td></td>
</tr>
</tbody>
</table>

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## Elastomer Properties

<table>
<thead>
<tr>
<th>Product Group</th>
<th>Trade Name</th>
<th>Properties</th>
<th>Sterilisation</th>
<th>Special Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic TPU</td>
<td>TECOFLEX™</td>
<td>Shore Range: 72A-800</td>
<td>EtO:</td>
<td>Fully customisable, non yellowing TPU</td>
</tr>
<tr>
<td>Aliphatic TPU</td>
<td>TECOPHILIC™</td>
<td>Shore Range: 80A-600</td>
<td>EtO:</td>
<td>Customisable, water absorbing TPU</td>
</tr>
<tr>
<td>Aliphatic TPU</td>
<td>TECOBAX™</td>
<td>Shore Range: 25D-45D</td>
<td>EtO:</td>
<td>Non softening, polyether TPU</td>
</tr>
<tr>
<td>Aromatic TPU</td>
<td>PELLETHANE®</td>
<td>Shore Range: 80A-750</td>
<td>EtO:</td>
<td>Classic brand polyether TPU</td>
</tr>
<tr>
<td>Aromatic TPU</td>
<td>TECOTHANE™</td>
<td>Shore Range: 75A-750</td>
<td>EtO:</td>
<td>Fully customisable, non yellowing TPU</td>
</tr>
<tr>
<td>Aromatic TPU</td>
<td>TECOTHANE™ SOFT</td>
<td>Shore Range: 62A-97A</td>
<td>EtO:</td>
<td>Hydrophobic, high resilience, special water TPU</td>
</tr>
<tr>
<td>COC-E</td>
<td>TOPAS® ELASTOMER</td>
<td>Shore Range: 90A</td>
<td>EtO:</td>
<td>Transparent, pure, high abrasion resistance</td>
</tr>
<tr>
<td>EVA</td>
<td>REPSOL HEALTHCARE®</td>
<td>Shore Range: 80A-460</td>
<td>EtO:</td>
<td>Resistance to ageing &amp; minus temperatures</td>
</tr>
<tr>
<td>TPE-A</td>
<td>PEBAX® MED</td>
<td>Shore Range: 25D-75D</td>
<td>EtO:</td>
<td>Torque transference, low kink, excellent cold temperature properties, high energy return</td>
</tr>
<tr>
<td>TPE-A</td>
<td>PEBAX® MV MED</td>
<td>Shore Range: 40D</td>
<td>EtO:</td>
<td>Hydrophilic, breathable, antistatic additive</td>
</tr>
<tr>
<td>TPU</td>
<td>CARBOTHANE™</td>
<td>Shore Range: 75A-720</td>
<td>EtO:</td>
<td>Best biostability TPU, aromatic and aliphatic</td>
</tr>
</tbody>
</table>

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**What Makes Velox Unique as a Raw Materials Distributor?**

**We Support All Phases of Your Project Development for Medical Devices Such As:**

- Technical support for polymer choice and processing.
- Binding confidentiality agreements, so that we can accompany you through the critical design phases.
- European stock for fast delivery of small and large quantities providing samples and commercial demands.
- You will receive full document support for biocompatibility (USP Class VI / ISO 10.993), Notification of Change statements and other technical / regulatory topics.

**We Supply These Markets**

With 25 years of technical and commercial expertise we are best placed to understand your requirements for medical packaging, non-implantable and implantable medical devices, dental materials, orthopaedics, drug delivery systems, diagnostics and surgical equipment. If needed, we have the solution for customer specific compounds through our ISO 13485 certified partner IPC. IPC is experienced in compounding a wide range of polymers and additives, including radiopaque additives and FDA approved colour pigments.

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