

Product Texts

Typical Markets/ Application Sectors:

- Medical applications

Application Examples:

- Membranes
- Infusion stoppers
- Closures
- Medical tubes

Material Advantage:

- Application up to indirect blood contact
- Tested accord. USP Class IV and ISO 10993-5
- Tested according to ISO 10993-11, ISO 10993-10, USP 6.6.1
- Outstanding resealing properties
- Very good compression set
- Adhesion to PP and HDPE
- Adapted for injection moulding and extrusion
- sterilizable (autoclave 134°C, gammaradiation 2x35 kGy, EtO)

| Mechanical properties | Value | Unit | Test Standard |
|--------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Tensile Strength | 7.5 | MPa | ISO 37 |
| Strain at break | 800 | % | ISO 37 |
| Compression set at 70 °C, 24h | 20 | % | ISO 815 |
| Compression set at 100 °C, 24h | 30 | % | ISO 815 |
| Tear strength | 12 | kN/m | ISO 34-1 |
| Shore A hardness | 33 | - | ISO 7619-1 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 890 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| Pre-drying - Temperature | 60 - 80 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Melt temperature | 200 - 250 | °C | - |
| Mold temperature | 25 - 40 | °C | - |
| Zone 1 | 180 - 200 | °C | - |
| Zone 2 | 200 - 220 | °C | - |
| Zone 3 | 220 - 250 | °C | - |
| Injection pressure | 20 - 100 | MPa | - |
| Back pressure | 2 - 10 | MPa | - |
| Holding pressure | 8 - 60 | MPa | - |
| Maximum residence time | 10 | min | - |

Characteristics

Processing

Injection Molding, Other Extrusion

Special Characteristics

Translucent, Sterilizable, Ethylene Oxide (EtO) Sterilization, Steam sterilization, Gamma irradiation sterilization

Features

Good Adhesion, Weldable

Certifications

Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved, Drug Master File, Long term supply assurance, RoHS compliant, REACH

Applications

Medical

Regional Availability

North America, Europe, Asia Pacific

Chemical Resistance

Radiation Resistance