

Product Texts

High Temperature, Transparent, Polyetherimide Blend with Improved Ductility and Enhanced Hydrostability. For medical devices and pharmaceutical applications. Healthcare management of change, biocompatible (ISO 10993 or USP Class VI); food contact compliant; Steam, Gamma, EtO, and E-beam sterilizable.

UL Yellow Card Link [E121562-100737020](https://www.ulprospector.com/11562-100737020)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|------------|------------------------|---------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 14 | cm ³ /10min | ISO 1133 |
| Temperature | 360 | °C | - |
| Load | 5 | kg | - |

| | | | |
|----------------------|------------|---------|-------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 10 | g/10min | ASTM D 1238 |
| Temperature | 337 | °C | - |
| Load | 6.6 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------------|-------------------|---------------|
| ISO Data | | | |
| Yield stress | 97 | MPa | ISO 527 |
| Yield strain | 7 | % | ISO 527 |
| Stress at break | 80 | MPa | ISO 527 |
| Strain at break | 50 | % | ISO 527 |
| Flexural modulus | 2800 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | N | kJ/m ² | ISO 180/1U |
| Izod impact strength, -30°C, 4mm | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 6 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C, 4mm | 6 | kJ/m ² | ISO 180/1A |

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|-----------------------------|-------------|-----|------------|
| ASTM Data | | | |
| Tensile Modulus | 2900 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 95 | MPa | ASTM D 638 |
| Tensile Strength at Break | 90 | MPa | ASTM D 638 |
| Elongation at Yield | 7 | % | ASTM D 638 |
| Elongation at Break | 85 | % | ASTM D 638 |
| Flexural Modulus | 3000 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 70 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| Vicat softening temperature, A | 219 | °C | ISO 306 |
| Vicat softening temperature, B | 212 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 212 | °C | ISO 306 |
| Burning behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | - |

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|-----------------------------------|---------------|---------|------------|
| ASTM Data | | | |
| Thermal Conductivity, solid state | 0.0274 | W/(m K) | ASTM C 177 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------------|-------------------|---------------|
| Density | 1280 | kg/m ³ | ISO 1183 |
| Density | 1280 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|------------------|------|---------------|
| Pre-drying - Temperature | 150 | °C | - |
| Pre-drying - Time | 6 - 8 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 355 - 390 | °C | - |
| Mold temperature | 130 - 160 | °C | - |
| Zone 1 | 330 - 390 | °C | - |
| Zone 2 | 335 - 390 | °C | - |

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| | | | |
|---------------|------------------|-----|---|
| Zone 3 | 345 - 390 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics**Processing**

Injection Molding

Special Characteristics

Transparent, Ethylene Oxide (EtO) Sterilization, Steam sterilization, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

Certifications

Food contact, Food approval FDA 21 CFR, US Pharmacopeia Class VI Approved

Applications

Medical

Regional Availability

Europe