

Product Texts

Medium flow specialty polycarbonate - improved processability & autoclavability. For medical devices and pharmaceutical applications. Healthcare management of change, biocompatible (ISO10993 or USP Class VI). EtO and steam sterilizable.

UL Yellow Card Link [E121562-522550](https://www.ul.com/yellow-card/E121562-522550)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 9 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 10 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Mechanical properties | | | |
| ISO Data | | | |
| Tensile Modulus | 2350 | MPa | ISO 527 |
| Yield stress | 57 | MPa | ISO 527 |
| Yield strain | 5.5 | % | ISO 527 |
| Stress at break | 61 | MPa | ISO 527 |
| Strain at break | 50 | % | ISO 527 |
| Flexural modulus | 2150 | MPa | ISO 178 |
| Charpy impact strength, +23°C, 3mm | N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C, 3mm | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C, 3mm | 65 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C, 3mm | 55 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 3mm | 65 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C, 3mm | 55 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 2210 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 58 | MPa | ASTM D 638 |
| Tensile Strength at Break | 64 | MPa | ASTM D 638 |
| Elongation at Yield | 5.8 | % | ASTM D 638 |
| Elongation at Break | 131 | % | ASTM D 638 |
| Flexural Modulus | 2210 | MPa | ASTM D 790 |
| Rockwell Hardness | L89 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 890 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 795 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |
| Thermal properties | | | |
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 118 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 141 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 142 | °C | ISO 306 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Burning behav. at thickness h | V-2 | class | IEC 60695-11-10 |
| Thickness tested | 2.5 | mm | - |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (GWIT) | 825 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (3) | 3 | mm | - |
| ASTM Data | | | |
| DTUL @ 264 psi | 124 | °C | ASTM D 648 |
| Vicat Temperature | 141 | °C | ASTM D 1525 |

| Electrical properties | Value | Unit | Test Standard |
|------------------------------|--------------|-------------|----------------------|
| ASTM Data | | | |
| Surface Resistivity | 1E15 | Ohm | ASTM D 257 |
| Volume Resistivity | 1E15 | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Water absorption | 0.12 | % | Sim. to ISO 62 |
| Humidity absorption | 0.09 | % | Sim. to ISO 62 |
| Density | 1190 | kg/m ³ | ISO 1183 |
| Density | 1190 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 295 - 315 | °C | - |
| Mold temperature | 70 - 95 | °C | - |
| Zone 1 | 270 - 295 | °C | - |
| Zone 2 | 280 - 305 | °C | - |
| Zone 3 | 295 - 315 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics

Processing

Injection Molding

Special Characteristics

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

Certifications

US Pharmacopeia Class VI Approved

Applications

Medical

Regional Availability

North America