

Spartech Polycom SCR7F-7010R

Polycarbonate
Spartech Polycom

Message:

Spartech SCR7F-7010R is a medium viscosity, flame retardant, PC resin for injection molding that features a mold release package. It is heat stabilized and lubricated for good processing characteristics.

Polycarbonate resins span a wide range of physical properties that combine to make it one of the toughest, most versatile of all engineering thermoplastics. It is well known for its exceptional impact resistance, plus it has outstanding mechanical, electrical, and optical properties.

A very versatile product for a wide variety of applications, Spartech SCR7F-7010R is recommended for industrial, transportation, sporting goods and electrical/electronic applications.

| General Information | | | |
|--|------------------------------------|-------------------|-------------|
| Additive | heat stabilizer | | |
| | Lubricant | | |
| | demoulding | | |
| | Flame retardancy | | |
| Features | Impact resistance, high | | |
| | Workability, good | | |
| | Good electrical performance | | |
| | Thermal Stability | | |
| | Thermal stability, good | | |
| | Good toughness | | |
| | Lubrication | | |
| | Good demoulding performance | | |
| | Medium viscosity | | |
| | Flame retardancy | | |
| Uses | Electrical/Electronic Applications | | |
| | Industrial application | | |
| | Application in Automobile Field | | |
| | Sporting goods | | |
| Appearance | Available colors | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.21 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 14 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |

| | | | |
|---|---------------|------|-------------|
| Tensile Strength (Yield, 23°C) | 62.1 | MPa | ASTM D638 |
| Flexural Modulus (23°C) | 2240 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 89.6 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 750 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 132 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (1.60 mm, NC) | V-0 | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 121 | °C | |
| Drying Time | 3.0 - 4.0 | hr | |
| Rear Temperature | 266 - 277 | °C | |
| Middle Temperature | 271 - 282 | °C | |
| Front Temperature | 282 - 299 | °C | |
| Nozzle Temperature | 277 - 304 | °C | |
| Processing (Melt) Temp | 288 - 316 | °C | |
| Mold Temperature | 71.1 - 93.3 | °C | |

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