

Spartech Polycom SC7-7006RF

Polycarbonate

Spartech Polycom

Message:

Spartech SC7-7006RF is a high viscosity PC resin for injection molding that features a mold release package and is approved by the FDA. 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 SC7-7006RF is recommended for industrial, transportation, sporting goods and electrical/electronic applications.

| General Information | | | |
|---------------------------|------------------------------------|-------------------|-------------|
| Additive | heat stabilizer | | |
| | Lubricant | | |
| | demoulding | | |
| Features | Impact resistance, high | | |
| | Workability, good | | |
| | Good electrical performance | | |
| | Thermal Stability | | |
| | Thermal stability, good | | |
| | Good toughness | | |
| | Lubrication | | |
| | Good demoulding performance | | |
| | Viscosity, High | | |
| Uses | Electrical/Electronic Applications | | |
| | Industrial application | | |
| | Application in Automobile Field | | |
| | Sporting goods | | |
| Agency Ratings | FDA not rated | | |
| Appearance | Available colors | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.20 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | 6.0 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 62.1 | MPa | ASTM D638 |

| | | | |
|--|---------------|------|-------------|
| Tensile Elongation (Break, 23°C) | 110 | % | ASTM D638 |
| Flexural Modulus (23°C) | 2340 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 94.8 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 800 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 137 | °C | ASTM D648 |
| 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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