

Spartech Polycom SC7-7022

Polycarbonate

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Message:

Spartech SC7-7022 is a high flow PC resin for injection molding. 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 SC7-7022 is recommended for industrial, transportation, sporting goods and electrical/electronic applications.

| General Information | | | |
|----------------------------------|------------------------------------|-------------------|-------------|
| Additive | heat stabilizer | | |
| | Lubricant | | |
| Features | Impact resistance, high | | |
| | Workability, good | | |
| | Good electrical performance | | |
| | High liquidity | | |
| | Thermal Stability | | |
| | Thermal stability, good | | |
| | Good toughness | | |
| | Lubrication | | |
| 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 | 1.20 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | 26 | 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) | 120 | % | ASTM D638 |
| Flexural Modulus (23°C) | 2310 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 93.1 | MPa | ASTM D790 |

| Impact | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Notched Izod Impact (23°C) | 690 | J/m | ASTM D256 |

| 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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