

# Spartech Polycom SC7-70910U

Polycarbonate

Spartech Polycom

Message:

Spartech SC7-70910U is a medium viscosity, reprocessed, PC resin for injection molding that features a UV stabilizer. 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 SC7-70910U is recommended for industrial, transportation, sporting goods and electrical/electronic applications.

| General Information       |                                    |          |             |
|---------------------------|------------------------------------|----------|-------------|
| Additive                  | heat stabilizer                    |          |             |
|                           | Lubricant                          |          |             |
|                           | UV stabilizer                      |          |             |
| Recycled Content          | Yes                                |          |             |
| Features                  | Impact resistance, high            |          |             |
|                           | Good UV resistance                 |          |             |
|                           | Workability, good                  |          |             |
|                           | Good electrical performance        |          |             |
|                           | Thermal Stability                  |          |             |
|                           | Thermal stability, good            |          |             |
|                           | Good toughness                     |          |             |
|                           | Lubrication                        |          |             |
| Uses                      | Medium viscosity                   |          |             |
|                           | Electrical/Electronic Applications |          |             |
|                           | Industrial application             |          |             |
|                           | Application in Automobile Field    |          |             |
| Appearance                | Sporting goods                     |          |             |
|                           | Available colors                   |          |             |
| Forms                     | Natural color                      |          |             |
|                           | Particle                           |          |             |
| Processing Method         | Injection molding                  |          |             |
| Physical                  | Nominal Value                      | Unit     | Test Method |
| Melt Mass-Flow Rate (MFR) | 20                                 | g/10 min | ASTM D1238  |
| Mechanical                | Nominal Value                      | Unit     | Test Method |
| Tensile Strength (23°C)   | 63.8                               | MPa      | ASTM D638   |
| Flexural Modulus (23°C)   | 2070                               | MPa      | ASTM D790   |

|                            |               |      |             |
|----------------------------|---------------|------|-------------|
| Flexural Strength (23°C)   | 91.4          | MPa  | ASTM D790   |
| Impact                     | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 130           | 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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