

Spartech Polycom SC14F-1060L

Polyamide 66

Spartech Polycom

Message:

Spartech SC14F-1060L is an unreinforced, flame retardant, nylon 6/6 resin for injection molding applications. It is heat stabilized and lubricated for good processing characteristics and easy mold release. This product meets Underwriter's Laboratories 94 V-0 flammability classification down to a thickness of 0.030" and 94 5VA down to 0.125" in thickness.

Nylons are highly crystalline resins with a sharp melting and freezing point. That characteristic allows for good flow properties when in the melt state, and fast cycle times when cooling in the mold. The highly crystalline characteristic also brings high strength properties and wear resistance.

A very versatile product for a wide variety of applications, Spartech SC14F-1060L is recommended for industrial, transportation, sporting goods and electrical/electronic applications.

| General Information | | | |
|---------------------|------------------------------------|-------------------|-------------|
| Additive | heat stabilizer | | |
| | Lubricant | | |
| | Flame retardancy | | |
| Features | High strength | | |
| | Crystallization | | |
| | Workability, good | | |
| | Fast molding cycle | | |
| | Good liquidity | | |
| | Good wear resistance | | |
| | Thermal Stability | | |
| | Thermal stability, good | | |
| | Lubrication | | |
| | Good demoulding performance | | |
| 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 | 1.27 | g/cm ³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |

| | | | |
|--|---------------|------|-------------|
| Tensile Strength (Yield, 23°C) | 58.6 | MPa | ASTM D638 |
| Flexural Strength (23°C) | 89.6 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 48 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 220 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | | | UL 94 |
| 0.787 mm, NC | V-0 | | UL 94 |
| 3.18 mm, NC | 5VA | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 87.8 - 93.3 | °C | |
| Drying Time | 2.0 - 4.0 | hr | |
| Rear Temperature | 238 - 260 | °C | |
| Middle Temperature | 249 - 271 | °C | |
| Front Temperature | 249 - 271 | °C | |
| Nozzle Temperature | 243 - 254 | °C | |
| Processing (Melt) Temp | 238 - 260 | °C | |
| Mold Temperature | 21.1 - 93.3 | °C | |

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