

HiPrene® HLG73BE

Polypropylene

GS Caltex

Message:

HiPrene® HLG73BE is polypropylene with 30% long glass fibers. The fibers are chemically coupled to polypropylene matrix. Pellets are cylindrical and usual length of embedded fibers is 10mm. This material combines excellent strength and stiffness with perfect impact resistance at low temperatures also. This grade is available in black color.

| General Information | | | |
|--|---------------------------------------|-------------------|-----------------|
| Filler / Reinforcement | Long Glass Fiber,30% Filler by Weight | | |
| Features | Chemically Coupled | | |
| | Good Impact Resistance | | |
| | High Stiffness | | |
| | High Strength | | |
| | Low Temperature Impact Resistance | | |
| Uses | Automotive Applications | | |
| | Industrial Applications | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.13 | g/cm ³ | ISO 1183 |
| Ash Content (600°C) | 30 | % | ISO 3451 |
| Volatile Matter | 0.12 | % | Internal Method |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 102 | | ISO 2039-2 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Yield) | 110 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 4.0 | % | ISO 527-2 |
| Flexural Modulus ¹ (23°C) | 6500 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 20 | kJ/m ² | ISO 179/1eA |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 156 | °C | ISO 75-2/B |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 90.0 | °C | |
| Drying Time | 4.0 | hr | |
| Rear Temperature | 220 to 230 | °C | |

| | | |
|------------------------|--------------|-----|
| Middle Temperature | 230 to 240 | °C |
| Front Temperature | 240 to 250 | °C |
| Nozzle Temperature | 240 to 250 | °C |
| Processing (Melt) Temp | 230 to 270 | °C |
| Mold Temperature | 30.0 to 75.0 | °C |
| Injection Pressure | 55.0 to 120 | MPa |
| Injection Rate | Slow | |
| Holding Pressure | 40.0 to 80.0 | MPa |
| Back Pressure | 0.00 to 3.00 | MPa |
| NOTE | | |

1. 2.0 mm/min

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