

Panlite® GM-9540N

TEIJIN LIMITED - Polycarbonate + Polyester

General Information

Product Description

Polycarbonate/Polyester alloy, Glass fiber mixed, Flame resistant

General

| | |
|------------------------|---|
| Filler / Reinforcement | • Glass Fiber, 40% Filler by Weight |
| Properties | • Creep Resistant • Flame Retardant • High Rigidity |
| Uses | • Industrial Applications |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|------------------|-------------------|-----------------|
| Density | 1.68 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | | | Internal Method |
| Across Flow : 4.00 mm | 0.70 to 0.90 | % | |
| Flow : 4.00 mm | 0.10 to 0.30 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Break, 23°C) | 165 | MPa | ISO 527-2/5 |
| Tensile Strain (Break, 23°C) | 2.0 | % | ISO 527-2/5 |
| Flexural Modulus ² (23°C) | 12000 | MPa | ISO 178 |
| Flexural Stress ² (23°C) | 230 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 9.0 | kJ/m ² | ISO 179 |
| Charpy Unnotched Impact Strength (23°C) | 50 | kJ/m ² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 0.45 MPa, Unannealed | 225 | °C | ISO 75-2/B |
| Deflection Temperature Under Load 1.8 MPa, Unannealed | 145 | °C | ISO 75-2/A |
| CLTE - Flow | 1.0E-5 to 3.0E-5 | cm/cm/°C | ISO 11359-2 |
| CLTE - Transverse | 7.0E-5 to 9.0E-5 | cm/cm/°C | ISO 11359-2 |
| RTI Elec (1.5 mm) | 155 | °C | UL 746B |
| RTI Imp (1.5 mm) | 75.0 | °C | UL 746B |
| RTI Str (1.5 mm) | 130 | °C | UL 746B |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.5 mm) | V-0 | | UL 94 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 120 | °C |
| Drying Time | 5.0 to 8.0 | hr |
| Processing (Melt) Temp | 260 to 280 | °C |
| Injection | Nominal Value | Unit |
| Mold Temperature | 70 to 110 | °C |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min