

Technical Data

Product Description

Flame-retardant, Halogen-free. Does not contain chlorine or bromine with V-0 flame retardant rating. Achieves the same balance between mechanical properties and fluidity as existing halogen-based flame retardant brands. Glass content: 45%

Application examples

Board-to-cable connector, Board-to-cable(FPC) connector, USB connector, Electrical and electronic applications

General

| | |
|---------------------------|--|
| Material Status | • Commercial: Active |
| Literature ¹ | • Technical Datasheet (English) |
| Search for UL Yellow Card | • Kuraray Co., Ltd. • Genestar™ |
| Availability | • Africa & Middle East • Asia Pacific • Europe • Latin America • North America |
| Filler / Reinforcement | • Glass Fiber, 45% Filler by Weight |
| Features | • Bromine Free • Chlorine Free • Flame Retardant • Good Flow • Halogen Free |
| Uses | • Connectors • Electrical/Electronic Applications |

| Physical | Nominal Value Unit | Test Method |
|--------------------------------|------------------------|-------------|
| Density | 1.53 g/cm ³ | ISO 1183/A |
| Molding Shrinkage | | ISO 294-4 |
| Across Flow : 2.00 mm | 0.70 % | |
| Flow : 2.00 mm | 0.20 % | |
| Water Absorption (24 hr, 23°C) | 0.10 % | ISO 62 |

| Mechanical | Nominal Value Unit | Test Method |
|------------------------|--------------------|-------------|
| Tensile Stress | 150 MPa | ISO 527-2 |
| Tensile Strain (Break) | 1.5 % | ISO 527-2 |
| Flexural Modulus | 13900 MPa | ISO 178 |
| Flexural Stress | 220 MPa | ISO 178 |

| Impact | Nominal Value Unit | Test Method |
|--------------------------------|-----------------------|-------------|
| Charpy Notched Impact Strength | 9.3 kJ/m ² | ISO 179/1eA |

| Flammability | Nominal Value Unit | Test Method |
|--------------|--------------------|-------------|
| Flame Rating | V-0 | UL 94 |

| Additional Information | Nominal Value Unit |
|--|--------------------|
| Bar Flow Length - 750kgf (320°C, 500.0 μm) | 55 mm |

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.