

Teijin Multilon TN-7100F Filler Reinforced Type, Halogen-Free Flame Resistant PC/ABS Polymer Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

Material Notes:

Halogen-free flame retardant PC/ABS polymer alloy, and is also antimony-free. High stiffness and flowability realize the thin wall of large-scale business machine chassis. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Multilon-TN-7100F-Filler-Reinforced-Type-Halogen-Free-Flame-Resistant-PCABS-Polymer-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm @Thickness 4.00 mm	0.0040 - 0.0060 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 4.00 mm	0.0040 - 0.0060 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	50mm/min; ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	50mm/min; ISO 527
Elongation at Break	50 %	50 %	50mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	50mm/min; ISO 527
Tensile Modulus	3.30 GPa	479 ksi	1mm/min; ISO 527
Flexural Strength	94.0 MPa	13600 psi	2mm/min; ISO 178
Flexural Modulus	3.20 GPa	464 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 Åµm/m-Å°C @Temperature 20.0 Å°C	33.3 Åµin/in-Å°F @Temperature 68.0 Å°F	ISO 11359
CTE, linear, Transverse to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ISO 11359

Thermal Properties	@Temperature 20.0 Metric °C	@Temperature 68.0 English °F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	ISO 75
Vicat Softening Point	96.0 °C	205 °F	50°C/hr, 50N; ISO 306
Flammability, UL94	V-1	V-1	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	
	@Thickness 1.80 mm	@Thickness 0.0709 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093

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