

Teijin Multilon TN-7000 Halogen-Free Flame Resistant PC/ABS Polymer Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Halogen-free flame retardant PC/ABS polymer alloy, and is also antimony-free. It is a typical type with high flowability, light resistance and heat stability that is suitable for a business machine chassis etc..Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Multilon-TN-7000-Halogen-Free-Flame-Resistant-PCABS-Polymer-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 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	48.0 MPa	6960 psi	50mm/min; ISO 527
Tensile Strength, Yield	63.0 MPa	9140 psi	50mm/min; ISO 527
Elongation at Break	80 %	80 %	50mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50mm/min; ISO 527
Flexural Strength	95.0 MPa	13800 psi	2mm/min; ISO 178
Flexural Modulus	2.60 GPa	377 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Åµm/m-Å°C @Temperature 20.0 Å°C	44.4 Åµin/in-Å°F @Temperature 68.0 Å°F	ISO 11359
CTE, linear, Transverse to Flow	80.0 Åµm/m-Å°C @Temperature 20.0 Å°C	44.4 Åµin/in-Å°F @Temperature 68.0 Å°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	94.0 Å°C	201 Å°F	ISO 75

Thermal Properties (264 psi)	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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