

Teijin Multilon DN-3510F 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. It has improved stiffness through the addition of 10 % filler. Improved stiffness and high fluidity realizes a thin wall of OA machines etc. Applications: Thin wall components of mechanical, electric and electronic equipment that need least warpage and dimensional accuracy etc. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Multilon-DN-3510F-Filler-Reinforced-Type-Halogen-Free-Flame-Resistant-PCABS-Polymer-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	50mm/min; ISO 527
Elongation at Break	35 %	35 %	50mm/min; ISO 527
Tensile Modulus	3.90 GPa	566 ksi	1mm/min; ISO 527
Flexural Strength	100 MPa	14500 psi	2mm/min; ISO 178
Flexural Modulus	3.80 GPa	551 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ISO 11359
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
CTE, linear, Transverse to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ISO 11359
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	91.0 °C	196 °F	ISO 75
Vicat Softening Point	105 °C	221 °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 1.30 mm	@Thickness 0.0512 in	

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

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