

Teijin Multilon DN-1520B 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 20 % 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-1520B-Filler-Reinforced-Type-Halogen-Free-Flame-Resistant-PCABS-Polymer-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	50mm/min; ISO 527
Tensile Strength, Yield	68.0 MPa	9860 psi	50mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	50mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	50mm/min; ISO 527
Tensile Modulus	6.50 GPa	943 ksi	1mm/min; ISO 527
Flexural Strength	115 MPa	16700 psi	2mm/min; ISO 178
Flexural Modulus	6.20 GPa	899 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 Åµm/m-Å°C	21.1 Åµin/in-Å°F	ISO 11359
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
	48.0 Åµm/m-Å°C	26.7 Åµin/in-Å°F	

Thermal Properties	Metric	English	Comments
	@ Temperature 20.0 °C	@ Temperature 68.0 °F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	122 °C	252 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ISO 75
Vicat Softening Point	124 °C	255 °F	50°C/hr, 50N; ISO 306
Flammability, UL94	V-1	V-1	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-1	V-1	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	5VB	5VB	
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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

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