

Teijin Multilon T-3011 Standard PC/ABS Polymer Alloy

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

Material Notes:

General grade of PC/ABS polymer alloy, having improved impact strength and heat resistance compared with a heat resistant ABS and flame retardant m-PPE and also having higher fluidity compared with a heat resistant ABS. Applications: Mechanical components. Electric and electronic components, Safety and industrial equipment components. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Multilon-T-3011-Standard-PCABS-Polymer-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 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	55.0 MPa	7980 psi	50mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	50mm/min; ISO 527
Elongation at Break	110 %	110 %	50mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50mm/min; ISO 527
Tensile Modulus	2.45 GPa	355 ksi	1mm/min; ISO 527
Flexural Strength	90.0 MPa	13100 psi	2mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359
	@Temperature 20.0		

Thermal Properties	°C Metric	°F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	123 °C	253 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ISO 75
Vicat Softening Point	121 °C	250 °F	50°C/hr, 50N; ISO 306
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	

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

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