

Toyobo T-422T Nylon, Mineral-Reinforced

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Key Feature: High heat distortion and good toughness
Information provided by Toyobo Co., Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-T-422T-Nylon-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Linear Mold Shrinkage, Transverse	0.0055 cm/cm	0.0055 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	91.0 MPa	13200 psi	ASTM D638
Elongation at Break	4.7 %	4.7 %	ASTM D638
Modulus of Elasticity	5.90 GPa	856 ksi	ASTM D638
Flexural Yield Strength	137 MPa	19900 psi	ASTM D790
Flexural Modulus	6.40 GPa	928 ksi	ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	30	30	CS-17 wheel; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 μm/m-°C	26.7 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ASTM D648
Flammability, UL94	HB	HB	unregistered

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	29.0 kV/mm @Thickness 2.00 mm	737 kV/in @Thickness 0.0787 in	ASTM D149
Arc Resistance	123 sec	123 sec	ASTM D495

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