

Toyobo GLAMIDE® T-521 Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced

Material Notes:

GLAMIDE® is very tough and exhibits high abrasion resistance. It has a high melting point and heat resistance, has well-balanced proportions of mechanical properties, performs self-distinguishing and a specific grade approved as UL94V-0 class is provided, and it exhibits excellent chemical resistance and oil resistance. Grade T-521 is a GF/mineral reinforced Nylon-6. It has high rigidity and good dimensional accuracy.30

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-521-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	Absolute Drying; ASTM-D792
Filler Content	30 %	30 %	
Water Absorption	1.1 %	1.1 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.5 %	2.5 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	15 g/10 min	15 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	42.0 MPa	6090 psi	Practical Use (Water Absorption 2.5%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	56.0 MPa	8120 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	77.0 MPa	11200 psi	Practical Use (Water Absorption 2.5%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	132 MPa	19100 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	135 MPa	19600 psi	Practical Use (Water Absorption 2.5%); ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	158 MPa	22900 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.8 %	3.8 %	Absolute Drying; ASTM-D638
	5.8 %	5.8 %	Practical Use (Water Absorption 2.5%); ASTM-D638
Flexural Strength	70.0 MPa	10200 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	105 MPa	15200 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	120 MPa	17400 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	130 MPa	18900 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	180 MPa	26100 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	245 MPa	35500 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	2.80 GPa	406 ksi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.10 GPa	450 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.80 GPa	551 ksi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.70 GPa	972 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.20 GPa	1040 ksi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	8.40 GPa	1220 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	125 MPa	18100 psi	Absolute Drying; ASTM-D695

Mechanical Properties	0.400 J/cm Metric	0.749 ft-lb/in English	Comments Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.650 J/cm	1.22 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.700 J/cm	1.31 ft-lb/in	Practical Use (Water Absorption 2.5%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.85 J/cm	3.47 ft-lb/in	Practical Use (Water Absorption 2.5%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	24.0 µm/m-°C	13.3 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	Practical Use (Water Absorption 2.5%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	20.0 kV/mm	508 kV/in	Practical Use (Water Absorption 2.5%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	26.0 kV/mm	660 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	100 sec	100 sec	Practical Use (Water Absorption 2.5%); ASTM-D495
	120 sec	120 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

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