

Toyobo GLAMIDE® T-222SA Nylon/Elastomer

Category : Polymer , Thermoplastic , Nylon

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-222SA is a super tough, non-reinforced alloy of nylon and elastomer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-222SA-NylonElastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	Absolute Drying; ASTM-D792
Water Absorption	0.60 %	0.60 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.0 %	2.0 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.018 - 0.023 cm/cm	0.018 - 0.023 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	6.0 g/10 min	6.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	85	85	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	6.00 MPa	870 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	8.00 MPa	1160 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	16.0 MPa	2320 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	25.0 MPa	3630 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	45.0 MPa	6530 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	50.0 MPa	7250 psi	Absolute Drying; ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
Elongation at Break	200 %	200 %	Absolute Drying; ASTM-D638
	>= 200 %	>= 200 %	Practical Use (Water Absorption 2.0%); ASTM-D638
Flexural Strength	6.00 MPa @Temperature 80.0 °C	870 psi @Temperature 176 °F	Practical Use (Water Absorption 2.0%); ASTM-D790
	8.00 MPa @Temperature 80.0 °C	1160 psi @Temperature 176 °F	Absolute Drying; ASTM-D790
	17.0 MPa @Temperature 23.0 °C	2470 psi @Temperature 73.4 °F	Practical Use (Water Absorption 2.0%); ASTM-D790
	25.0 MPa @Temperature 23.0 °C	3630 psi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	45.0 MPa @Temperature -40.0 °C	6530 psi @Temperature -40.0 °F	Practical Use (Water Absorption 2.0%); ASTM-D790
	50.0 MPa @Temperature -40.0 °C	7250 psi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
Flexural Modulus	0.100 GPa @Temperature 80.0 °C	14.5 ksi @Temperature 176 °F	Practical Use (Water Absorption 2.0%); ASTM-D790
	0.200 GPa @Temperature 80.0 °C	29.0 ksi @Temperature 176 °F	Absolute Drying; ASTM-D790
	0.400 GPa @Temperature 23.0 °C	58.0 ksi @Temperature 73.4 °F	Practical Use (Water Absorption 2.0%); ASTM-D790
	0.700 GPa @Temperature 23.0 °C	102 ksi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	1.20 GPa @Temperature -40.0 °C	174 ksi @Temperature -40.0 °F	Practical Use (Water Absorption 2.0%); ASTM-D790
	1.40 GPa @Temperature -40.0 °C	203 ksi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
Izod Impact, Notched	3.00 J/cm @Temperature -40.0 °C	5.62 ft-lb/in @Temperature -40.0 °F	Absolute Drying; ASTM-D256
	3.20 J/cm	5.99 ft-lb/in	Practical Use (Water Absorption 2.0%); ASTM-D256

Mechanical Properties	@Temperature -40.0 °C Metric NB	@Temperature -40.0 °F English NB	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Practical Use (Water Absorption 2.0%); ASTM-D256
	NB	NB	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	8.0	8.0	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	67.0 °C	153 °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 2.0%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	15.0 kV/mm	381 kV/in	Practical Use (Water Absorption 2.0%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	18.0 kV/mm	457 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	115 sec	115 sec	Practical Use (Water Absorption 2.0%); ASTM-D495
	125 sec	125 sec	Absolute Drying; ASTM-D495
	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 300 °C	500 - 572 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	
Injection Pressure	50.0 - 80.0 MPa	7250 - 11600 psi	

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