

Toyobo GLAMIDE® NB-5620S Nylon/Olefin

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 NB-5620S is a light weight, mineral-reinforced alloy of nylon and olefin.15

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-NB-5620S-NylonOlefin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	Absolute Drying; ASTM-D792
Filler Content	15 %	15 %	
Water Absorption	0.50 %	0.50 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.1 %	2.1 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	8.0 g/10 min	8.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	22.0 MPa	3190 psi	Practical Use (Water Absorption 2.1%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	25.0 MPa	3630 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	52.0 MPa	7540 psi	Practical Use (Water Absorption 2.1%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.0 MPa	8700 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	90.0 MPa	13100 psi	Practical Use (Water Absorption 2.1%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	100 MPa Metric	14500 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	8.0 %	8.0 %	Absolute Drying; ASTM-D638
Flexural Strength	30.0 MPa	4350 psi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	40.0 MPa	5800 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	79.0 MPa	11500 psi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	95.0 MPa	13800 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	152 MPa	22000 psi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	160 MPa	23200 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.40 GPa	203 ksi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.30 GPa	334 ksi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.80 GPa	406 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.70 GPa	537 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.40 GPa	783 ksi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	6.20 GPa	899 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.540 J/cm	1.01 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric ^{kg/cm}	English ^{lb/in}	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	Practical Use (Water Absorption 2.1%); ASTM-D256
	2.20 J/cm @Temperature 23.0 °C	4.12 ft-lb/in @Temperature 73.4 °F	Practical Use (Water Absorption 2.1%); ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °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 2.1%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	21.0 kV/mm @Thickness 2.00 mm	533 kV/in @Thickness 0.0787 in	Practical Use (Water Absorption 2.1%); ASTM-D149
	25.0 kV/mm @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	Absolute Drying; ASTM-D149
Arc Resistance	120 sec	120 sec	Practical Use (Water Absorption 2.1%); ASTM-D495
	130 sec	130 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 290 °C	464 - 554 °F	
Mold Temperature	50.0 - 120 °C	122 - 248 °F	
Injection Pressure	50.0 MPa	7250 psi	

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