

Toyobo NB-5620S Nylon/Olefin Alloy, 15% Mineral Reinforced (DAM)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Features: 15% Mineral Reinforced, Light Weight Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-NB-5620S-NylonOlefin-Alloy-15-Mineral-Reinforced-DAM.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Filler Content	15 %	15 %	
Water Absorption	0.50 %	0.50 %	24 hrs at 23°C; ASTM D570
	2.1 %	2.1 %	65% R.H. equilibrium; ASTM D570
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Index of Compound	8.0 g/10 min	8.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength at Break	60.0 MPa	8700 psi	ASTM D638
	100 MPa	14500 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Ultimate	25.0 MPa	3630 psi	ASTM D638
	@Temperature 80.0 °C	@Temperature 176 °F	
Elongation at Break	8.0 %	8.0 %	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
	40.0 MPa	5800 psi	ASTM D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	160 MPa	23200 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Flexural Modulus Mechanical Properties	Metric	English	ASTM D790 Comments
	2.80 GPa	406 ksi	ASTM D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	6.20 GPa	899 ksi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.540 J/cm	1.01 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	130 sec	130 sec	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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