

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

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-Conditioned.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	ASTM D638
	90.0 MPa @Temperature -40.0 °C	13100 psi @Temperature -40.0 °F	ASTM D638
Tensile Strength, Ultimate	22.0 MPa @Temperature 80.0 °C	3190 psi @Temperature 176 °F	ASTM D638
Flexural Strength	79.0 MPa	11500 psi	ASTM D790
	30.0 MPa @Temperature 80.0 °C	4350 psi @Temperature 176 °F	ASTM D790
	152 MPa @Temperature -40.0 °C	22000 psi @Temperature -40.0 °F	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
	1.40 GPa @Temperature 80.0 °C	203 ksi @Temperature 176 °F	ASTM D790

Mechanical Properties	5.40 GPa Metric	783 ksi English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.20 J/cm	4.12 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	120 sec	120 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	(DAM)
Mold Temperature	50.0 - 120 °C	122 - 248 °F	(DAM)
Injection Pressure	50.0 MPa	7250 psi	(DAM)

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China