

Beijing Evergrow Resources MoS2 Filled Nylon

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Information provided by Beijing Evergrow Resources.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Beijing-Evergrow-Resources-MoS2-Filled-Nylon.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	GB1033

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80 - 88	80 - 88	GB3398
Ball Indentation Hardness	148.5 MPa	21540 psi	GB3398
Tensile Strength at Break	74.1 MPa	10700 psi	GB/T 1040
Elongation at Yield	<= 25 %	<= 25 %	GB/T 1040
Modulus of Elasticity	3.10 GPa	450 ksi	GB/T 1040
Flexural Strength	86.9 MPa	12600 psi	GB9341
Compressive Strength	90.0 - 105 MPa	13100 - 15200 psi	GB/T 1040
Izod Impact, Notched (ISO)	6.40 kJ/m ²	3.05 ft-lb/in ²	GBT1043
Coefficient of Friction	0.107	0.107	GB3360

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 $\mu\text{m}/\text{m}\cdot\text{C}$	41.7 $\mu\text{in}/\text{in}\cdot\text{F}$	GB1036
Melting Point	230 $^{\circ}\text{C}$	446 $^{\circ}\text{F}$	HG/T2235
Heat Distortion Temperature	145 $^{\circ}\text{C}$	293 $^{\circ}\text{F}$	GB1634

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	Volume; GB1410
Arc Resistance	600 sec	600 sec	ASTM D112

Processing Properties	Metric	English	Comments
Moisture Content	1.9 - 2.0 %	1.9 - 2.0 %	in air

Processing Properties	6.1 - 6.3 % Metric	6.1 - 6.3 % English	in water Comments
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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