

Ensinger Tecamid® MDS® Molybdenum Disulfide Filled Nylon (PA)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Tecamid MDS® has enhanced surface lubricity and wear resistance over unfilled nylon. It is an ideal material to replace metals in machinery. Low surface friction Increased surface hardness Increased heat resistance Higher tensile properties Improved dimensional stability Information provided by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecamid-MDS-Molybdenum-Disulfide-Filled-Nylon-PA.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.2 - 2.5 %	1.2 - 2.5 %	at 24 hours; ASTM D570
Water Absorption at Saturation	7.5 - 8.5 %	7.5 - 8.5 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	ASTM D638
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256
K (wear) Factor	383 x 10 ⁻⁸ mm ³ /N-M	190 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40 psi, 50 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.67 J/g-°C	0.400 BTU/lb-°F	
Melting Point	255 °C	491 °F	ASTM D2133
Maximum Service Temperature, Air	110 °C	230 °F	Long Term; ASTM UL746B
	179 °C	355 °F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	243 °C	470 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.5 @Frequency 60 Hz	2.5 @Frequency 60 Hz	ASTM D150
Dielectric Strength	1.18 kV/mm	30.0 kV/in	ASTM D149

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