

Cast Nylons Nycast® 6PA-MoS2 Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

Material Notes:

NYCAST® 6PA-MoS2 is a molybdenum disulphide filled Type 6 cast nylon. Finely divided MoS2 particles are suspended in the melt during polymerization. This gives the NYCAST® 6PA-MoS2 products improved compression strength over the regular Nycast 6PA products. Data provided by the manufacturer, Cast Nylons Limited. The data below are average values presented for comparison purposes. Actual property values may differ.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cast-Nylons-Nycast-6PA-MoS2-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	24 hrs; ASTM D570
Water Absorption at Saturation	5.5 %	5.5 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength, Ultimate	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	20 - 45 %	20 - 45 %	ASTM D638
Tensile Modulus	3.60 GPa	522 ksi	ASTM D638
Flexural Yield Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	3.20 GPa	464 ksi	ASTM D790
Compressive Yield Strength	114 MPa	16500 psi	10% Offset; ASTM D695
Compressive Modulus	2.20 GPa	319 ksi	ASTM D695
Shear Strength	72.0 MPa	10400 psi	ASTM D732
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.22	0.22	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 °C	230 °F	Continuous service
	166 °C	331 °F	Intermittent service
Deflection Temperature at 0.46 MPa (66 psi)	204 - 221 °C	399 - 430 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	166 - 204 °C	331 - 399 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	
	@Frequency 60 Hz	@Frequency 60 Hz	
	3.7	3.7	
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	3.7	3.7	
	@Frequency 100000 Hz	@Frequency 100000 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	Short time; ASTM D149

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