

Cast Nylons Nycast® 6MPB Plasticized Nylon 6

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

Material Notes:

A plasticized Type 6 material, NYCAST® 6MPB is formulated for use as pile driver caps or cushion pads. 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-6MPB-Plasticized-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 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	112	112	ASTM D785
Hardness, Shore D	77	77	ASTM D2240
Tensile Strength, Ultimate	71.0 MPa	10300 psi	ASTM D638
Elongation at Break	25 - 35 %	25 - 35 %	ASTM D638
Tensile Modulus	2.80 GPa	406 ksi	ASTM D638
Flexural Yield Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Compressive Yield Strength	162 MPa	23500 psi	10% Offset; ASTM D695
Compressive Modulus	1.80 GPa	261 ksi	ASTM D695
Shear Strength	72.0 MPa	10400 psi	ASTM D732
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	45.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	226 - 238 °C	439 - 460 °F	ASTM D789
Maximum Service Temperature, Air	110 °C	230 °F	Continuous service

Thermal Properties	166 °C Metric	331 °F English	Intermittent service Comments
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	
	3.7	3.7	ASTM D150
	@Frequency 100000 Hz	@Frequency 100000 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	Short time; ASTM D149

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