

Kolon Kopa® KN173MS Nylon 6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

KOPA is widely used in the automobile and industrial parts. General KOPA N-6 Features: Good mechanical properties, Extreme toughness, Outstanding self-lubrication and abrasion resistance, Excellent chemical resistance, Wide usage temperature, Good impact absorbing characteristics. Information provided by US distributor, API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-Kopa-KN173MS-Nylon-6-Resin.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.70 %	0.70 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.011 - 0.012 cm/cm	0.011 - 0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	DIN 53505; ASTM D785
Tensile Strength, Ultimate	108 MPa	15700 psi	DIN 53455; ASTM D638
Elongation at Break	15 %	15 %	DIN 53455; ASTM D638
Flexural Yield Strength	167 MPa	24200 psi	DIN 53452; ASTM D790
Flexural Modulus	3.90 GPa	566 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	DIN 53752; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
	3.5	3.5	

Dielectric Constant Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	ASTM D150/DIN 53483 Comments
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149/DIN 53481
Arc Resistance	136 sec	136 sec	ASTM D495

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