

Kolon Kopa® KN1331 Nylon 6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

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-KN1331-Nylon-6-Resin.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DIN 53479; ASTM D792
Water Absorption	1.8 %	1.8 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	DIN 53505; ASTM D785
Tensile Strength, Ultimate	83.0 MPa	12000 psi	DIN 53455; ASTM D638
Elongation at Break	70 %	70 %	DIN 53455; ASTM D638
Flexural Yield Strength	123 MPa	17800 psi	DIN 53452; ASTM D790
Flexural Modulus	2.60 GPa	377 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	80.0 $\mu\text{m/m-}^\circ\text{C}$	44.4 $\mu\text{in/in-}^\circ\text{F}$	DIN 53752; ASTM D696
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Melting Point	220 $^\circ\text{C}$	428 $^\circ\text{F}$	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	180 $^\circ\text{C}$	356 $^\circ\text{F}$	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 $^\circ\text{C}$	149 $^\circ\text{F}$	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{3.4} Metric	^{3.4} English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	/DIN 53483
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149/DIN 53481
Arc Resistance	120 sec	120 sec	ASTM D495

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