

Kolon KOPA[®] KN333MS Low Friction Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

KOPA[®] is a thermoplastic resin with excellent mechanical, thermal and electrical properties and is widely used in the automobile, electrical and industrial parts. High tensile strength, outstanding self lubrication and abrasion resistance, excellent chemical & weather resistance, high usage temperature. Information provided by US distributor, API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOPA-KN333MS-Low-Friction-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	DIN 53479; ASTM D792
Water Absorption	1.0 %	1.0 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	DIN 53505; ASTM D785
Tensile Strength, Ultimate	93.2 MPa	13500 psi	DIN 53455; ASTM D638
Elongation at Break	10 %	10 %	DIN 53455; ASTM D638
Flexural Yield Strength	123 MPa	17800 psi	DIN 53455; ASTM D790
Flexural Modulus	2.89 GPa	420 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752; ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Melting Point	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	230 $\text{Å}^\circ\text{C}$	446 $\text{Å}^\circ\text{F}$	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	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 <small>/DIN 53483</small>
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149/DIN 53481
Arc Resistance	128 sec	128 sec	ASTM D495

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