

Kolon KOPA[®] KN3311 General Purpose Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

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-KN3311-General-Purpose-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DIN 53479; ASTM D792
Water Absorption	1.3 %	1.3 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	DIN 53505; ASTM D785
Tensile Strength, Ultimate	83.4 MPa	12100 psi	DIN 53455; ASTM D638
Elongation at Break	60 %	60 %	DIN 53455; ASTM D638
Flexural Yield Strength	127 MPa	18500 psi	DIN 53455; ASTM D790
Flexural Modulus	2.94 GPa	427 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.686 J/cm	1.29 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	38.9 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	DIN 53752; ASTM D696
Melting Point	255 $^{\circ}\text{C}$	491 $^{\circ}\text{F}$	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	235 $^{\circ}\text{C}$	455 $^{\circ}\text{F}$	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 $^{\circ}\text{C}$	185 $^{\circ}\text{F}$	DIN 53461; ASTM D648
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{3.3} Metric	^{3.3} English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D149/DIN 53483
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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