

Kolon KOPA[®] KN173HI3R High Impact Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

KOPA[®] is a thermoplastic resin with excellent mechanical, thermal and electrical properties and is widely used in automobile and industrial parts. Good mechanical properties, 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-KN173HI3R-High-Impact-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	DIN 53479; ASTM D792
Water Absorption	1.1 %	1.1 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.013 - 0.016 cm/cm	0.013 - 0.016 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	DIN 53505; ASTM D785
Tensile Strength, Ultimate	53.9 MPa	7820 psi	DIN 53455; ASTM D638
Elongation at Break	300 %	300 %	DIN 53455; ASTM D638
Flexural Yield Strength	73.5 MPa	10700 psi	DIN 53455; ASTM D790
Flexural Modulus	1.77 GPa	256 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	NB	NB	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	100 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	55.6 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	DIN 53752; ASTM D696
Melting Point	215 $^{\circ}\text{C}$	419 $^{\circ}\text{F}$	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 $^{\circ}\text{C}$	140 $^{\circ}\text{F}$	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{3.2} Metric	^{3.2} 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	125 sec	125 sec	ASTM D495

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