

Kolon KOPA® KN333HB30BL Hybrid Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Hybrid, dimensionally stable Applications Timing belt covers Information provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOPA-KN333HB30BL-Hybrid-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.40 %	0.40 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength	116 MPa	16800 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Flexural Strength	186 MPa	27000 psi	ASTM D790
Flexural Modulus	5.884 GPa	853.4 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	245 $\text{Å}^\circ\text{C}$	473 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	233 $\text{Å}^\circ\text{C}$	451 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.4	3.4	ASTM D150
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149
Arc Resistance	135 sec	135 sec	ASTM D495

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