

Kolon KOPA® KN3321G10V0L G/F Reinforced & Flame Retardant Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

High flame resistant, high toughness, dimensionally stable Applications A variety of connectors Information provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOPA-KN3321G10V0L-GF-Reinforced-Flame-Retardant-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.70 %	0.70 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	89.0 MPa	12900 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Flexural Strength	143 MPa	20700 psi	ASTM D790
Flexural Modulus	4.806 GPa	697.1 ksi	ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 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)	240 $\text{Å}^\circ\text{C}$	464 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	235 $\text{Å}^\circ\text{C}$	455 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.6	3.6	ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Arc Resistance	130 sec	130 sec	ASTM D495

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