

Kolon KOPAA® KN173MC M/F Reinforced Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

KOPAA® 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-KN173MC-MF-Reinforced-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.70 %	0.70 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	DIN 53505; ASTM D785
Tensile Strength, Ultimate	59.8 MPa	8680 psi	DIN 53455; ASTM D638
Elongation at Break	25 %	25 %	DIN 53455; ASTM D638
Flexural Yield Strength	98.1 MPa	14200 psi	DIN 53455; ASTM D790
Flexural Modulus	2.84 GPa	412 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	1.96 J/cm	3.67 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Åµm/m-Å°C	22.2 Åµin/in-Å°F	DIN 53752; ASTM D696
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Melting Point	220 Å°C	428 Å°F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	200 Å°C	392 Å°F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	175 Å°C	347 Å°F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{3.5} Metric	^{3.5} English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	/DIN 53483
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149/DIN 53481
Arc Resistance	130 sec	130 sec	ASTM D495

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