

Kolon KOPAÂ® KN178MT40 M/F Reinforced Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

KOPAÂ® 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-KN178MT40-MF-Reinforced-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.40 %	0.40 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	DIN 53505; ASTM D785
Tensile Strength, Ultimate	78.5 MPa	11400 psi	DIN 53455; ASTM D638
Elongation at Break	5.0 %	5.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	127 MPa	18500 psi	DIN 53455; ASTM D790
Flexural Modulus	5.39 GPa	782 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.588 J/cm	1.10 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	DIN 53752; ASTM D696
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Melting Point	220 Â°C	428 Â°F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C	401 Â°F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°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	135 sec	135 sec	ASTM D495

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