

## Kolon Kopa® KN161 Nylon 6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

KOPA is widely used in the automobile and industrial parts. General KOPA N-6 Features: Good mechanical properties, Extreme toughness, 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-KN161-Nylon-6-Resin.php](http://www.lookpolymers.com/polymer_Kolon-Kopa-KN161-Nylon-6-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	DIN 53479; ASTM D792
Water Absorption	0.30 %	0.30 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.010 - 0.013 cm/cm	0.010 - 0.013 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	DIN 53505; ASTM D785
Tensile Strength, Ultimate	51.0 MPa	7400 psi	DIN 53455; ASTM D638
Elongation at Break	100 %	100 %	DIN 53455; ASTM D638
Flexural Yield Strength	74.0 MPa	10700 psi	DIN 53452; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	1.47 J/cm	2.75 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752; ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Melting Point	220 $\text{Å}^\circ\text{C}$	428 $\text{Å}^\circ\text{F}$	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 $\text{Å}^\circ\text{C}$	144 $\text{Å}^\circ\text{F}$	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	<sup>3.3</sup> Metric	<sup>3.3</sup> English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	/DIN 53483
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149/DIN 53481
Arc Resistance	118 sec	118 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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