

## Kolon Kopa® KN153G30 Nylon 6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

### 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-KN153G30-Nylon-6-Resin.php](http://www.lookpolymers.com/polymer_Kolon-Kopa-KN153G30-Nylon-6-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	DIN 53479; ASTM D792
Water Absorption	0.13 %	0.13 %	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	115	115	DIN 53505; ASTM D785
Tensile Strength, Ultimate	133 MPa	19300 psi	DIN 53455; ASTM D638
Elongation at Break	5.0 %	5.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	189 MPa	27400 psi	DIN 53452; ASTM D790
Flexural Modulus	7.00 GPa	1020 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	40.0 $\mu\text{m/m-}^\circ\text{C}$	22.2 $\mu\text{in/in-}^\circ\text{F}$	DIN 53752; ASTM D696
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Melting Point	220 $^\circ\text{C}$	428 $^\circ\text{F}$	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	205 $^\circ\text{C}$	401 $^\circ\text{F}$	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	190 $^\circ\text{C}$	374 $^\circ\text{F}$	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	<sup>3.2</sup> Metric	<sup>3.2</sup> English	Comments <small>/DIN 53483</small>
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149/DIN 53481
Arc Resistance	123 sec	123 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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