

## Kolon KOPAA® KN133G33HIBL G/F Reinforced Nylon 6

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

### 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-KN133G33HIBL-GF-Reinforced-Nylon-6.php](http://www.lookpolymers.com/polymer_Kolon-KOPA-KN133G33HIBL-GF-Reinforced-Nylon-6.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	DIN 53479; ASTM D792
Water Absorption	0.30 %	0.30 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	DIN 53505; ASTM D785
Tensile Strength, Ultimate	127 MPa	18500 psi	DIN 53455; ASTM D638
Elongation at Break	6.0 %	6.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	177 MPa	25600 psi	DIN 53455; ASTM D790
Flexural Modulus	7.06 GPa	1020 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	30.0 Åµm/m-Å°C	16.7 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)	190 Å°C	374 Å°F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	<sup>3.6</sup> Metric	<sup>3.6</sup> English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	/DIN 53483
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149/DIN 53481
Arc Resistance	130 sec	130 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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