

## Kolon KOPA<sup>®</sup> KN177N Nylon Extrusion Resin

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Excellent transparent & flexible copolyamide, typical applications are fishing nets & fishing lines. Information provided by US distributor, API-Kolon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-KOPA-KN177N-Nylon-Extrusion-Resin.php](http://www.lookpolymers.com/polymer_Kolon-KOPA-KN177N-Nylon-Extrusion-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	DIN 53479; ASTM D792
Water Absorption	1.8 %	1.8 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.012 - 0.015 cm/cm	0.012 - 0.015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	DIN 53505; ASTM D785
Tensile Strength, Ultimate	73.5 MPa	10700 psi	DIN 53455; ASTM D638
Elongation at Break	150 %	150 %	DIN 53455; ASTM D638
Flexural Yield Strength	98.1 MPa	14200 psi	DIN 53455; ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.785 J/cm	1.47 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	DIN 53752; ASTM D696
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)	180 $\text{Å}^\circ\text{C}$	356 $\text{Å}^\circ\text{F}$	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 $\text{Å}^\circ\text{C}$	149 $\text{Å}^\circ\text{F}$	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.4 @Frequency 1e+6 Hz	3.4 @Frequency 1e+6 Hz	ASTM D150/DIN 53483
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149/DIN 53481
Arc Resistance	120 sec	120 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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