

## PolyOne Therma-Tech™ NJC-5000 TC NATURAL Nylon 12 (discontinued \*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

Information provided by PolyOne Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Therma-Tech-NJC-5000-TC-NATURAL-Nylon-12-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Therma-Tech-NJC-5000-TC-NATURAL-Nylon-12-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Water Absorption	0.10 % @Thickness 0.508 mm	0.10 % @Thickness 0.0200 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0079 cm/cm	0.0079 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	43.0 MPa	6240 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
	69.57 MPa	10090 psi	Type 1 - Rigids, 0.2 in/min, 50% in/in; ASTM D638
Elongation at Break	1.6 %	1.6 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	0.848 GPa	123 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	68.40 MPa	9921 psi	ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	0.500 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	>= 2.02 W/m-K	>= 14.0 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	143.0 °C	289.4 °F	Unannealed, 0.062 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	22000 ohm	22000 ohm	ASTM D257

Descriptive Properties	Value	Comments
Product Form	Pellets	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China