

PolyOne Therma-Tech™ NJ-6000C TC Nylon 12 (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Therma-Tech™ Thermal Management Compounds have been engineered to combine the heat transfer and cooling capabilities of metals with the design freedom, weight reduction and cost advantages of thermoplastics. These materials provide the benefits of proprietary conductive additive technologies and the performance of select engineering thermoplastic resins. Therma-Tech compounds have been shown to improve thermal conductivity up to 100-times that of conventional plastics and can be used in a wide range of thermal management applications. Description/Features: PA 12 (Nylon 12) Thermally Conductive Electrically Insulative Applications: Enclosures Heat Sinks Motor components Processing Method: Injection Molding Information provided by PolyOne Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Therma-Tech-NJ-6000C-TC-Nylon-12-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D792
Water Absorption	0.10 % @Thickness 3.17 mm	0.10 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Elongation at Break	0.60 %	0.60 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	19.3 GPa	2800 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	99.3 MPa	14400 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.500 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.00 - 3.00 W/m-K	13.9 - 20.8 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	193 °C	380 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 - 1.00e+16 ohm-cm	1.00e+15 - 1.00e+16 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+13 - 1.00e+14 ohm	1.00e+13 - 1.00e+14 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 277 °C	500 - 530 °F	Molding
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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