

PolyOne Therma-Tech™ NJC-6500 Nylon 12 (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Therma-Tech-NJC-6500-Nylon-12-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------|
| Specific Gravity | 1.763 g/cc | 1.763 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.0045 cm/cm | 0.0045 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|---|--|
| Tensile Strength, Ultimate | 36.4 MPa | 5280 psi | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Elongation at Break | 0.35 % | 0.35 % | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Tensile Modulus | 18.22 GPa | 2643 ksi | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Flexural Strength | 68.40 MPa | 9921 psi | ASTM D790 |
| Flexural Modulus | 19.42 GPa | 2816 ksi | ASTM D790 |
| Izod Impact, Notched | 0.176 J/cm @Thickness 3.17 mm, Temperature 23.0 °C | 0.329 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Method A, Injection Molded; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|----------------------|---------------|--------------------------------------|-----------|
| Thermal Conductivity | >= 16.0 W/m-K | >= 111 BTU-in/hr-ft ² -°F | ASTM C177 |

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

| Descriptive Properties | Value | Comments |
|------------------------|---------|----------|
| Product Form | Pellets | |

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