

Network Polymers Nylon 6609 L

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Description: Black Nylon Information provided by Network Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-Nylon-6609-L.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|-------------------------------|
| Specific Gravity | 1.14 g/cc | 1.14 g/cc | ASTM D792 |
| Water Absorption | 1.2 % | 1.2 % | 24 hours Immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.015 cm/cm | 0.015 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------|---------------------------|----------------------------|
| Hardness, Rockwell R | 121 | 121 | ASTM D785 |
| Tensile Strength, Yield | 82.7 MPa | 12000 psi | ASTM D638 |
| Elongation at Break | 50 % | 50 % | ASTM D638 |
| Flexural Strength | 103 MPa | 15000 psi | ASTM D790 |
| Flexural Modulus | 2.83 GPa | 410 ksi | ASTM D790 |
| Izod Impact, Notched | 0.481 J/cm | 0.900 ft-lb/in | 1/8 in specimen; ASTM D256 |
| Tensile Impact Strength | 210 kJ/m ² | 100 ft-lb/in ² | ASTM D1822 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Melting Point | 255 °C | 491 °F | ASTM D789 |
| Deflection Temperature at 1.8 MPa (264 psi) | 87.8 °C | 190 °F | ASTM D648 |

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