

Plastics Group Polifil® 930L Nylon 6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Polifil® NYLON 6 provides superior strength and rigidity with electrical resistance and surface lubricity. Applications:

Automotive Housings Bearings Appliances Standard processing techniques are applicable. Information provided by The Plastics Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-930L-Nylon-6-DAM.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|------------------------------------|---------------------|
| Density | 1.13 g/cc | 0.0408 lb/in ³ | ASTM D792 |
| Water Absorption | 1.6 % | 1.6 % | 24 hours; ASTM D570 |
| Linear Mold Shrinkage | 0.012 cm/cm @Thickness 3.17 mm | 0.012 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|---------------|--------------------|
| Hardness, Rockwell R | 120 | 120 | ASTM D785 |
| Tensile Strength at Break | 79.3 MPa | 11500 psi | ASTM D638 |
| Elongation at Break | 40 % | 40 % | ASTM D638 |
| Elongation at Yield | 8.0 % | 8.0 % | ASTM D638 |
| Flexural Strength | 103 MPa | 15000 psi | ASTM D790 |
| Flexural Modulus | 2.69 GPa | 390 ksi | Tangent; ASTM D790 |
| Izod Impact, Notched | 0.587 J/cm | 1.10 ft-lb/in | At 73°F; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Melting Point | 216 °C | 420 °F | ASTM D789 |
| Deflection Temperature at 0.46 MPa (66 psi) | 182 °C | 360 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 62.8 °C | 145 °F | ASTM D648 |

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