

PTS Trimid® N6-200N Nylon 6 with Nucleating Agent

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Nucleated

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-Trimid-N6-200N-Nylon-6-with-Nucleating-Agent.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-----------|
| Density | 1.14 g/cc | 0.0412 lb/in ³ | ASTM D792 |
| Water Absorption | 1.6 % | 1.6 % | ASTM D570 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 79.3 MPa | 11500 psi | ASTM D638 |
| Elongation at Break | 100 % | 100 % | ASTM D638 |
| Flexural Modulus | 2.83 GPa | 410 ksi | ASTM D790 |
| Izod Impact, Notched | 0.530 J/cm @Thickness 3.17 mm | 0.993 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Melting Point | 216 °C | 421 °F | ASTM D789 |
| Deflection Temperature at 1.8 MPa (264 psi) | 64.0 °C | 147 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|----------------|---------------|----------|
| Rear Barrel Temperature | <= 216 °C | <= 420 °F | |
| Middle Barrel Temperature | 227 - 254 °C | 440 - 490 °F | |
| Front Barrel Temperature | 238 - 266 °C | 460 - 510 °F | |
| Nozzle Temperature | 238 - 266 °C | 460 - 510 °F | |
| Melt Temperature | 232 - 271 °C | 450 - 520 °F | |
| Mold Temperature | 21.1 - 93.3 °C | 70.0 - 200 °F | |
| Drying Temperature | 82.2 °C | 180 °F | |
| Dry Time | 3 - 4 hour | 3 - 4 hour | |

| Injection Pressure Processing Properties | 82.7 - 172 MPa Metric | 12000 - 25000 psi English | Comments |
|---|--------------------------|------------------------------|----------|
| Back Pressure | 0.000 - 0.345 MPa | 0.000 - 50.0 psi | |
| Screw Speed | 40 - 80 rpm | 40 - 80 rpm | |

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