

RheTech Products P107-00 Polypropylene Homopolymer, Natural

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Applications: Wire harnesses Trim components Underhood components Injection molding conditions reported in table. Information provided by RheTech Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_RheTech-Products-P107-00-Polypropylene-Homopolymer-Natural.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|--------------------|
| Specific Gravity | 0.900 g/cc | 0.900 g/cc | 23/23°C; ASTM D792 |
| Linear Mold Shrinkage | 0.0145 cm/cm | 0.0145 in/in | ASTM D955 |
| Melt Flow | 35 g/10 min @Load 2.16 kg, Temperature 230 °C | 35 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------------------|--|---------------------|
| Hardness, Shore D | 74 | 74 | ASTM D2240 |
| Tensile Strength at Break | 32.4 MPa | 4700 psi | 2 in/min; ASTM D638 |
| Flexural Modulus | 1.31 GPa | 190 ksi | Tangent; ASTM D790 |
| Izod Impact, Notched | 0.267 J/cm @Temperature 23.0 °C | 0.500 ft-lb/in @Temperature 73.4 °F | ASTM D256 |
| Gardner Impact | 1.13 J | 0.830 ft-lb | ASTM D5420 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 104 °C | 220 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C | 140 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 188 - 216 °C | 370 - 420 °F | |
| Middle Barrel Temperature | 193 - 221 °C | 380 - 430 °F | |
| Front Barrel Temperature | 199 - 227 °C | 390 - 440 °F | |
| Nozzle Temperature | 204 - 216 °C | 400 - 420 °F | |

| Mold Temperature Processing Properties | 26.7 - 48.9 °C Metric | 80.0 - 120 °F English | Comments |
|---|--------------------------|--------------------------|-------------|
| Drying Temperature | 65.6 - 82.2 °C | 150 - 180 °F | |
| Dry Time | 1 - 2 hour | 1 - 2 hour | |
| Moisture Content | <= 0.050 % | <= 0.050 % | Recommended |
| Injection Pressure | 2.76 - 10.3 MPa | 400 - 1500 psi | |
| Hold Pressure | 2.07 - 8.27 MPa | 300 - 1200 psi | |
| Back Pressure | 0.345 - 1.03 MPa | 50.0 - 150 psi | |

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