

RheTech Products M12P100-01 12% Mica Reinforced Polypropylene, Black

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Mica Filler

Material Notes:

Applications: Fan shrouds Air ducts Filler panels 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-M12P100-01-12-Mica-Reinforced-Polypropylene-Black.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|--------------------|
| Specific Gravity | 1.00 g/cc | 1.00 g/cc | 23/23°C; ASTM D792 |
| Filler Content | 12 % | 12 % | ASTM D5630 |
| Linear Mold Shrinkage | 0.012 cm/cm | 0.012 in/in | ASTM D955 |
| Melt Flow | 18 g/10 min @Load 2.16 kg, Temperature 230 °C | 18 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------------------|--|---------------------|
| Hardness, Shore D | 75 | 75 | ASTM D2240 |
| Tensile Strength at Break | 33.1 MPa | 4800 psi | 2 in/min; ASTM D638 |
| Flexural Modulus | 2.31 GPa | 335 ksi | Tangent; ASTM D790 |
| Izod Impact, Notched | 0.320 J/cm @Temperature 23.0 °C | 0.600 ft-lb/in @Temperature 73.4 °F | ASTM D256 |
| Gardner Impact | 0.339 J | 0.250 ft-lb | ASTM D5420 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 121 °C | 250 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.6 °C | 150 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 193 - 221 °C | 380 - 430 °F | |
| Middle Barrel Temperature | 199 - 227 °C | 390 - 440 °F | |
| Front Barrel Temperature | 204 - 232 °C | 400 - 450 °F | |
| Nozzle Temperature | 210 - 221 °C | 410 - 430 °F | |

| Processing Properties | Metric ^{25.7 - 48.9 °C} | English ^{80.0 - 120 °F} | 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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