

RheTech Products GC10P100-01 10% Glass Fiber Reinforced Polypropylene, Chemically Coupled, Black

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

Material Notes:

Applications: Air ducts - distribution Fuel filler pockets 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-GC10P100-01-10-Glass-Fiber-Reinforced-Polypropylene-Chemically-Coupled-Black.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|--------------------|
| Specific Gravity | 0.980 g/cc | 0.980 g/cc | 23/23°C; ASTM D792 |
| Filler Content | 10 % | 10 % | ASTM D5630 |
| Linear Mold Shrinkage | 0.0052 cm/cm | 0.0052 in/in | ASTM D955 |
| Melt Flow | 12 g/10 min @Load 2.16 kg, Temperature 230 °C | 12 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------------------|--|---------------------|
| Hardness, Shore D | 71 | 71 | ASTM D2240 |
| Tensile Strength at Break | 50.3 MPa | 7300 psi | 2 in/min; ASTM D638 |
| Flexural Modulus | 2.40 GPa | 348 ksi | Tangent; ASTM D790 |
| Izod Impact, Notched | 0.374 J/cm @Temperature 23.0 °C | 0.700 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) | 152 °C | 305 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 122 °C | 252 °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 Processing Properties | 204 - 232 °C Metric | 400 - 450 °F English | Comments |
|---|------------------------|-------------------------|-------------|
| Nozzle Temperature | 210 - 221 °C | 410 - 430 °F | |
| Mold Temperature | 26.7 - 48.9 °C | 80.0 - 120 °F | |
| 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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