

Clariant Renol PPSSP0008 Polyphenylene Sulfide, Carbon Fiber, Lubricated

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with Carbon Fiber + PTFE Filler

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PPSSP0008-Polyphenylene-Sulfide-Carbon-Fiber-Lubricated.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 165 MPa | 24000 psi | ASTM D638 |
| Flexural Modulus | 20.7 GPa | 3000 ksi | ASTM D790 |
| Izod Impact, Notched | 0.534 J/cm @Temperature 22.8 °C | 1.00 ft-lb/in @Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------|--------------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 266 - 268 °C | 510 - 515 °F | ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------|----------|-----------|
| Volume Resistivity | <= 1e+05 | <= 1e+05 | ASTM D257 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------------------------|-----------------------------------|--|
| Melt Temperature | 307 - 329 °C | 585 - 625 °F | |
| Mold Temperature | 135 - 177 °C | 275 - 350 °F | |
| Dry Time | 2 - 4 hour @Temperature 93.3 °C | 2 - 4 hour @Temperature 200 °F | to ensure moisture content level is less than 0.2% |
| Injection Pressure | 41.4 - 74.5 MPa | 6000 - 10800 psi | Secondary |
| | 68.9 - 103 MPa | 10000 - 15000 psi | Initial |
| Shot Size | 30 - 80 % | 30 - 80 % | |
| Screw Speed | 60 - 100 rpm | 60 - 100 rpm | |

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