

Clariant Renol PCSP0017 Polycarbonate/Polyester Alloy, 30% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend, Glass Reinforced , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PCSP0017-PolycarbonatePolyester-Alloy-30-Glass-Reinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.59 g/cc | 1.59 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0015 - 0.0035 cm/cm | 0.0015 - 0.0035 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength at Break | 105 MPa | 15200 psi | ASTM D638 |
| Flexural Strength | 170 MPa | 24700 psi | ASTM D790 |
| Flexural Modulus | 3.93 GPa | 570 ksi | ASTM D790 |
| Izod Impact, Notched | 6.14 J/cm @Temperature 22.8 °C | 11.5 ft-lb/in @Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 204 °C | 400 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|---|
| Melt Temperature | 254 - 282 °C | 490 - 540 °F | |
| Mold Temperature | 65.6 - 93.3 °C | 150 - 200 °F | |
| Dry Time | 2 - 4 hour @Temperature 121 °C | 2 - 4 hour @Temperature 250 °F | to ensure the moisture level is less than 0.02% |
| Injection Pressure | 4.96 - 8.27 MPa | 720 - 1200 psi | Secondary |
| | 8.27 - 13.8 MPa | 1200 - 2000 psi | Initial |
| Back Pressure | 0.345 - 1.72 MPa | 50.0 - 250 psi | |
| Shot Size | 30 - 80 % | 30 - 80 % | |
| Screw Speed | 20 - 100 rpm | 20 - 100 rpm | |

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