

Evonik CYRO Acrylite® FT15 NTA Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-FT15-NTA-Compound.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------|
| Specific Gravity | 1.19 g/cc | 1.19 g/cc | ISO 1183 |
| Water Absorption | <= 0.30 % | <= 0.30 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0050 - 0.0060 cm/cm | 0.0050 - 0.0060 in/in | ISO 294 |
| Melt Flow | 2.2 g/10 min @Load 3.80 kg, Temperature 230 °C | 2.2 g/10 min @Load 8.38 lb, Temperature 446 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|---|---|--------------|
| Tensile Strength at Break | 57.9 MPa | 8400 psi | ISO 527 |
| Elongation at Break | 1.9 % | 1.9 % | ISO 527 |
| Elongation at Yield | 1.9 % | 1.9 % | ISO 527 |
| Tensile Modulus | 3.52 GPa | 510 ksi | ISO 527 |
| Flexural Strength | 62.7 MPa | 9100 psi | ISO 178 |
| Flexural Modulus | 3.38 GPa | 490 ksi | ISO 178 |
| Izod Impact, Unnotched (ISO) | 1.90 kJ/m ² @Diameter 4.00 mm | 0.904 ft-lb/in ² @Diameter 0.157 in | bar; ISO 180 |

| Thermal Properties | Metric | English | Comments |
|--|--|---|------------------|
| CTE, linear | 72.0 µm/m-°C @Temperature 0.000 - 100 °C | 40.0 µin/in-°F @Temperature 32.0 - 212 °F | ISO 11359-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 105 °C | 221 °F | annealed; ISO 75 |
| Vicat Softening Point | 113 °C | 235 °F | ISO 306 |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|--------------------|
| Transmission, Visible | 0.0 % | 0.0 % | Opaque; ASTM D1003 |

| Optical Properties | Metric | English | Comments |
|------------------------------|----------------|----------------|-----------------|
| Processing Properties | Metric | English | Comments |
| Middle Barrel Temperature | 221 - 249 °C | 430 - 480 °F | Cylinder Temp |
| Melt Temperature | 221 - 249 °C | 430 - 480 °F | |
| Mold Temperature | 48.9 - 96.1 °C | 120 - 205 °F | |
| Drying Temperature | 105 °C | 221 °F | |
| Dry Time | 2 - 3 hour | 2 - 3 hour | |

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