

Zeon Chemicals Zeonex® 690R Cyclo-Olefin Polymer

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zeon-Chemicals-Zeonex-690R-Cyclo-Olefin-Polymer.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|-----------|
| Specific Gravity | 1.01 g/cc | 1.01 g/cc | ASTM D792 |
| Water Absorption | <= 0.010 % | <= 0.010 % | ASTM D570 |
| Melt Flow | 10 - 25 g/10 min @Load 2.16 kg, Temperature 280 °C | 10 - 25 g/10 min @Load 4.76 lb, Temperature 536 °F | Z-011A |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|----------------|-----------|
| Hardness, Rockwell R | 120 | 120 | ASTM D785 |
| Tensile Strength, Yield | 59.82 MPa | 8676 psi | ASTM D638 |
| Elongation at Yield | 20 % | 20 % | ASTM D638 |
| Tensile Modulus | 2.354 GPa | 341.4 ksi | ASTM D638 |
| Flexural Strength | 9.22 MPa | 1340 psi | ASTM D790 |
| Flexural Modulus | 2.157 GPa | 312.9 ksi | ASTM D790 |
| Izod Impact, Notched | 0.294 J/cm | 0.551 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|-----------|
| CTE, linear | 70.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C | 38.9 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 136 °C | 277 °F | ASTM D648 |
| Vicat Softening Point | 145 °C | 293 °F | |
| Glass Transition Temp, Tg | 136 °C | 277 °F | DSC |
| Decomposition Temperature | 420 °C | 788 °F | |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|-----------|
| Refractive Index | 1.53 | 1.53 | ASTM D542 |

| Optical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|-----------|
| Electrical Properties | Metric | English | Comments |
| Volume Resistivity | $\geq 1.00 \times 10^{16}$ ohm-cm | $\geq 1.00 \times 10^{16}$ ohm-cm | ASTM D257 |
| Dielectric Constant | 2.3 | 2.3 | ASTM D150 |
| Dielectric Strength | 40.0 kV/mm | 1020 kV/in | ASTM D149 |

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