

Lucite International Diakon® CLG356 Acrylic Polymer

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

Information provided by Lucite International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucite-International-Diakon-CLG356-Acrylic-Polymer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|---------------------------|----------|
| Density | 1.18 g/cc | 0.0426 lb/in ³ | ISO 1183 |
| Water Absorption | 0.30 % | 0.30 % | ISO 62 |
| Linear Mold Shrinkage | 0.0040 - 0.0070 cm/cm | 0.0040 - 0.0070 in/in | |
| Melt Flow | 15 g/10 min | 15 g/10 min | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|-----------------------------|-----------------------|
| Hardness, Rockwell M | 85 | 85 | ISO 2039-2 |
| Ball Indentation Hardness | 175 MPa | 25400 psi | ISO 2039-1 (H 961-30) |
| Tensile Strength | 75.0 MPa | 10900 psi | ISO 527 |
| Elongation at Break | 4.0 % | 4.0 % | ISO 527 |
| Flexural Strength | 105 MPa | 15200 psi | ISO 178 |
| Flexural Modulus | 2.90 GPa | 421 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 1.70 kJ/m ² | 0.809 ft-lb/in ² | ISO 180/1A |
| Charpy Impact Unnotched | 1.80 J/cm ² | 8.57 ft-lb/in ² | ISO 179/1eU |
| Charpy Impact, Notched | 0.200 J/cm ² | 0.952 ft-lb/in ² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|----------------|------------------|-----------|
| CTE, linear | 71.0 Åµm/m-Å°C | 39.4 Åµin/in-Å°F | ASTM E831 |
| Deflection Temperature at 0.46 MPa (66 psi) | 91.0 Å°C | 196 Å°F | ISO 75B |
| Deflection Temperature at 1.8 MPa (264 psi) | 88.0 Å°C | 190 Å°F | ISO 75A |
| Vicat Softening Point | 93.0 Å°C | 199 Å°F | ISO 306B |
| | 98.0 Å°C | 208 Å°F | ISO 306A |

| Flammability UL 94 Thermal Properties | HB Metric | HB English | Comments |
|--|--------------|---------------|-------------|
| Glow Wire Test | 650 Å°C | 1200 Å°F | IEC 695-2-1 |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|------------|
| Refractive Index | 1.49 | 1.49 | ISO 489 |
| Haze | 0.40 % | 0.40 % | ASTM D1003 |
| Transmission, Visible | 92 % | 92 % | ASTM D1003 |

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