

Entec Hylex® P1325L1 HB Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Optical Grade

Material Notes:

UV Stabilized, High Flow, Mold Release, Water Clear
Information provided by Entec.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Entec-Hylex-P1325L1-HB-Polycarbonate.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|---|---|----------------------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | ASTM D792 |
| Water Absorption at Saturation | 0.15 % | 0.15 % | Immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.005 - 0.007 cm/cm | 0.005 - 0.007 in/in | ASTM D955 |
| Melt Flow | 25 g/10 min @Load 1.20 kg, Temperature 300 °C | 25 g/10 min @Load 2.65 lb, Temperature 572 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|---------------|-----------|
| Hardness, Rockwell R | 72 | 72 | ASTM D785 |
| Tensile Strength at Break | 65.5 MPa | 9500 psi | ASTM D638 |
| Elongation at Break | 120 % | 120 % | ASTM D638 |
| Flexural Strength | 93.1 MPa | 13500 psi | ASTM D790 |
| Flexural Modulus | 2.31 GPa | 335 ksi | ASTM D790 |
| Izod Impact, Notched | 6.41 J/cm | 12.0 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|----------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 132 °C | 270 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 127 °C | 260 °F | ASTM D648 |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | HB | HB | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Refractive Index Optical Properties | 1.586 Metric | 1.586 English | ASTM D942 Comments |
|--|-----------------|------------------|-----------------------|
| Haze | 1.0 % | 1.0 % | ASTM D1003 |
| Transmission, Visible | 88 % | 88 % | ASTM D1003 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------|----------------|-----------|
| Volume Resistivity | 1.0e+17 ohm-cm | 1.0e+17 ohm-cm | ASTM D257 |
| Dielectric Strength | 15.0 kV/mm | 380 kV/in | ASTM D149 |

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