

SABIC Innovative Plastics Lexan® ML1661 PC Copolymer (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Medium-flow impact-modified light-shielding high-flow-ductile PC copolymer. Available in white color only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML1661-PC-Copolymer-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|------------------------|--------------------------------------|--------------------------------------|---|
| Specific Gravity | 1.25 g/cc | 1.25 g/cc | ASTM D792 |
| Melt Flow | 12 g/10 min | 12 g/10 min | ASTM D1238 |
| | @Load 1.20 kg, Temperature 300 °C | @Load 2.65 lb, Temperature 572 °F | |
| Melt Index of Compound | 10 g/10 min | 10 g/10 min | MVR [cm ³ /10 min]; ISO 1133 |
| | @Load 1.20 kg, Temperature 300 °C | @Load 2.65 lb, Temperature 572 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------|-----------------------|-----------------------------------|
| Tensile Strength at Break | 57.0 MPa | 8270 psi | Type I, 50 mm/min; ASTM D638 |
| Tensile Strength, Yield | 53.0 MPa | 7690 psi | Type I, 50 mm/min; ASTM D638 |
| Elongation at Break | 113 % | 113 % | Type I, 50 mm/min; ASTM D638 |
| Elongation at Yield | 5.0 % | 5.0 % | Type I, 50 mm/min; ASTM D638 |
| Flexural Modulus | 2.10 GPa | 305 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 6.50 J/cm | 12.2 ft-lb/in | ASTM D256 |
| | 6.10 J/cm | 11.4 ft-lb/in | ASTM D256 |
| Dart Drop, Total Energy | @Temperature -30.0 °C | @Temperature -22.0 °F | ASTM D3763 |
| | 66.0 J | 48.7 ft-lb | |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|--|--------------------|---------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 122 °C | 252 °F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Deflection Temperature at 1.8 MPa (264 psi) | 108 °C | 226 °F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

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