

SABIC Innovative Plastics LNP THERMOCOMP Lexan_LGK3020 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Glass reinforced. Flame retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LexanLGK3020-PC-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--|---|--------------|
| Specific Gravity | 1.43 g/cc | 1.43 g/cc | ASTM D792 |
| Water Absorption | 0.13 % @Time 86400 sec | 0.13 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.00050 - 0.0025 cm/cm @Thickness 3.20 mm | 0.00050 - 0.0025 in/in @Thickness 0.126 in | SABIC Method |
| Linear Mold Shrinkage, Transverse | 0.0015 - 0.0035 cm/cm @Thickness 3.20 mm | 0.0015 - 0.0035 in/in @Thickness 0.126 in | SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|---------------|-----------------------------------|
| Tensile Strength at Break | 117 MPa | 17000 psi | Type I, 50 mm/min; ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | Type I, 50 mm/min; ASTM D638 |
| Flexural Strength | 147 MPa | 21300 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 6.57 GPa | 953 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 1.22 J/cm | 2.29 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 27.0 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature -30.0 - 30.0 $^{\circ}\text{C}$ | 15.0 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature -22.0 - 86.0 $^{\circ}\text{F}$ | ASTM D696 |
| CTE, linear, Transverse to Flow | 46.8 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature -30.0 - 30.0 $^{\circ}\text{C}$ | 26.0 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature -22.0 - 86.0 $^{\circ}\text{F}$ | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 146 $^{\circ}\text{C}$ @Thickness 6.40 mm | 295 $^{\circ}\text{F}$ @Thickness 0.252 in | unannealed; ASTM D648 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------------|----------------------|----------|
| Flammability, UL94 | @Thickness 1.60 mm | @Thickness 0.0630 in | UL 94 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------------------------|----------------------------------|-------------------|
| Dielectric Strength | 17.7 kV/mm @Thickness 3.20 mm | 450 kV/in @Thickness 0.126 in | in oil; ASTM D149 |

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