

SABIC Innovative Plastics Lexan® FL3000 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Structural foam: 10% weight reduction at 0.250" wall. ECO-conforming. Impact modified PC with excellent low-temperature impact and UV-stability. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-FL3000-PC-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------------------------|--------------------------------------|-------------------------|
| Specific Gravity | 1.07 g/cc | 1.07 g/cc | foam molded; ASTM D 792 |
| | 1.19 g/cc | 1.19 g/cc | ASTM D 792 |
| Linear Mold Shrinkage, Flow | 0.0090 - 0.011 cm/cm | 0.0090 - 0.011 in/in | SABIC Method |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Melt Flow | 9.5 g/10 min | 9.5 g/10 min | ASTM D 1238 |
| | @Load 1.20 kg, Temperature 300 °C | @Load 2.65 lb, Temperature 572 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|--|
| Tensile Strength at Break | 40.0 MPa | 5800 psi | ASTM D 638 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| Elongation at Break | 3.2 % | 3.2 % | ASTM D 638 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| Tensile Modulus | 2.81 GPa | 408 ksi | ASTM D 638 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Flexural Yield Strength | 72.0 MPa | 10400 psi | ASTM D 790 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Flexural Modulus | 1.89 GPa | 274 ksi | ASTM D 790 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Izod Impact, Unnotched | 9.07 J/cm | 17.0 ft-lb/in | ASTM D 4812 |
| | @Thickness 6.40 mm, Temperature 23.0 °C | @Thickness 0.252 in, Temperature 73.4 °F | |
| Impact Test | 89.0 J | 65.6 ft-lb | Instrumented Impact Total Energy; ASTM D 3763 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 94.0 J | 69.3 ft-lb | |

| Mechanical Properties | Metric @ Temperature -20.0 °C | English @ Temperature -4.00 °F | Instrumented Impact Total Energy; ASTM D 3763 Comments |
|-----------------------|----------------------------------|-----------------------------------|--|
| | 94.0 J | 69.3 ft-lb | Instrumented Impact Total Energy; ASTM D 3763 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |

| Thermal Properties | Metric | English | Comments |
|--|------------------------------|-------------------------------|------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 131 °C @Thickness 6.40 mm | 268 °F @Thickness 0.252 in | unannealed; ASTM D 648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 °C @Thickness 6.40 mm | 248 °F @Thickness 0.252 in | unannealed; ASTM D 648 |
| UL RTI, Electrical | 50.0 °C | 122 °F | UL 746B |
| UL RTI, Mechanical with Impact | 50.0 °C | 122 °F | UL 746B |
| UL RTI, Mechanical without Impact | 50.0 °C | 122 °F | UL 746B |
| Flammability, UL94 | V-0 @Thickness 2.99 mm | V-0 @Thickness 0.118 in | UL 94 |
| | 5VA @Thickness 6.09 mm | 5VA @Thickness 0.240 in | UL 94 |

| Descriptive Properties | Value | Comments |
|---|-------|----------|
| FOAM - Flame Class Minimum Density, g/cm ³ | 1.07 | - |
| FOAM - IMPACT 6.4 mm Wt Reduction, % | 10 | - |
| FOAM - MECHANICAL 6.4 mm Wt Reduction, % | 10 | - |
| FOAM - PHYSICAL 6.4mm Wt Reduction, % | 10 | - |
| FOAM - THERMAL 6.4mm Wt Reduction, % | 10 | - |
| UV-light, water exposure/immersion | F1 | UL 746C |

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