

SABIC Innovative Plastics Lexan® FXG921A PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LEXAN FXG921A is a transparent/translucent, medium viscosity, flame retardant grade with a diamond sparkle appearance. Color package may affect performance. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-FXG921A-PC-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|--|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 0.15 % | 0.15 % | 23°C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.35 % @Temperature 23.0 °C | 0.35 % @Temperature 73.4 °F | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | on tensile bar; SABIC Method |
| Melt Flow | 12 g/10 min @Load 1.20 kg, Temperature 300 °C | 12 g/10 min @Load 2.65 lb, Temperature 572 °F | [cm ³ /10 min] Melt Volume Rate; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|--------------------|
| Hardness, H358/30 | 95.0 MPa | 13800 psi | ISO 2039-1 |
| Tensile Strength at Break | 50.0 MPa | 7250 psi | 50 mm/min; ISO 527 |
| Tensile Strength, Yield | 63.0 MPa | 9140 psi | 50 mm/min; ISO 527 |
| Elongation at Break | 50 % | 50 % | 50 mm/min; ISO 527 |
| Elongation at Yield | 6.0 % | 6.0 % | 50 mm/min; ISO 527 |
| Tensile Modulus | 2.35 GPa | 341 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 90.0 MPa | 13100 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 2.30 GPa | 334 ksi | 2 mm/min; ISO 178 |

| Thermal Properties | Metric | English | Comments |
|---|--|---|------------------------------------|
| CTE, linear, Parallel to Flow | 70.0 µm/m-°C @Temperature 23.0 - 80.0 °C | 38.9 µin/in-°F @Temperature 73.4 - 176 °F | ISO 11359-2 |
| Deflection Temperature at 0.46 MPa (66 psi) | 135 °C | 275 °F | Edgew 120*10*4 sp=100mm; ISO 75/Be |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|-----------------------------|------------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 124 °C | 255 °F | IEC 60695-10-4 sp=100mm; ISO 75/Ae |
| Vicat Softening Point | 141 °C | 286 °F | Rate B/50; ISO 306 |
| | 142 °C | 288 °F | Rate B/120; ISO 306 |
| Flammability, UL94 | V-2 @Thickness 1.50 mm | V-2 @Thickness 0.0591 in | UL 94 by SABIC-IP |
| | V-0 @Thickness 3.00 mm | V-0 @Thickness 0.118 in | UL 94 by SABIC-IP |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---|
| Transmission, Visible | 80 % | 80 % | transparent/translucent; thickness not quantified |

| Descriptive Properties | Value | Comments |
|-----------------------------------|--------|----------------|
| Ball Pressure Test, 125°C +/- 2°C | PASSES | IEC 60695-10-2 |

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