

SABIC Innovative Plastics Lexan® FXM171R PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LEXAN FXM171R is a transparent/translucent high flow grade for special effects colors with a metallic-luster appearance. Color package may affect performance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-FXM171R-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 | 0.150 % | 0.150 % | 23°C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.35 % | 0.35 % | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | on Tensile Bar; SABIC Method |
| Melt Index of Compound | 26 g/10 min @Load 1.20 kg, Temperature 300 °C | 26 g/10 min @Load 2.65 lb, Temperature 572 °F | MVR [cm ³ /10 min]; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|--------------------|
| 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) | 133 °C | 271 °F | Edgew 120*10*4 sp=100mm; ISO 75/Be |
| Deflection Temperature at 1.8 MPa (264 psi) | 122 °C | 252 °F | Edgew 120*10*4 sp=100mm; ISO 75/Ae |

| Vicat Softening Point Thermal Properties | 141 °C Metric | 286 °F English | Rate B/120: ISO 306 Comments |
|---|------------------|-------------------|---------------------------------|
|---|------------------|-------------------|---------------------------------|

| 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 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China