

## SABIC Innovative Plastics Lexan® SFX173RU PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

SFX173RU is a transparent SecurFX grade with high flow, mold release and UV stabilizer. This grade is for security applications and contains proprietary authentication technology.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-SFX173RU-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-SFX173RU-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	25 g/10 min @Load 1.20 kg, Temperature 300 °C	25 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	8.0 %	8.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.57 GPa	228 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	58.0 J @Temperature 23.0 °C	42.8 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	126 °C @Thickness 3.20 mm	259 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	144 °C	291 °F	Rate B/50; ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

## Contact Songhan Plastic Technology Co.,Ltd.

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