

SABIC Innovative Plastics Lexan® FXE9925A PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Illuminate / edge glow color effect grade of Lexan 9925A. 9925A is a flame retardant transparent polycarbonate featuring non brominated and non chlorinated FR system with good flow and thin wall FR performance. It intended to meet WEEE/RoHS requirements for various applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-FXE9925A-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
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 @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13 g/10 min @Load 1.20 kg, Temperature 300 °C	13 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	50 mm/min; ISO 527
	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
	62.0 MPa	8990 psi	50 mm/min; ISO 527
Elongation at Break	77 %	77 %	50 mm/min; ISO 527
	83 %	83 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ISO 527
	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.23 GPa	323 ksi	1 mm/min; ISO 527
	2.30 GPa	334 ksi	5 mm/min; ASTM D638
Flexural Strength	95.0 MPa	13800 psi	12.5 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	31.0 MPa	4500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.15 GPa	312 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.24 GPa	325 ksi	2 mm/min; ISO 178
Izod Impact, Notched	7.50 J/cm	14.1 ft-lb/in	ASTM D256
Charpy Impact, Notched	6.80 J/cm ²	32.4 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	75.0 J	55.3 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	123 °C	253 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	124 °C	255 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	140 °C	284 °F	Rate B/50; ASTM D1525
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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

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