

SABIC Innovative Plastics Lexan® FL900S PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Foamable Lexan® FL900S polycarbonate resin is an ideal choice for structural components where load bearing capability at elevated temperature is a key requirement. It exhibits outstanding impact strength, high heat resistance, flexural characteristics, creep resistance and processability. In addition, it is an excellent alternative to metal for large components with broad application potential in the appliance, automotive, telecommunications, material, handling and business machine industries. The material contains 5% glass fiber and combines rigidity, impact strength and toughness with UL 94 V-0 and 5V listings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-FL900S-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ASTM D792
Filler Content	5.0 %	5.0 %	ASTM D229
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	ASTM D570
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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Gardner Impact	50.0 J	36.9 ft-lb	SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 23.0 - 80.0 $^\circ\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 73.4 - 176 $^\circ\text{F}$	ISO 11359-2
Specific Heat Capacity	0.280 J/g- $^\circ\text{C}$	0.0669 BTU/lb- $^\circ\text{F}$	ASTM C351
Thermal Conductivity	0.150 W/m-K	1.04 BTU-in/hr-ft 2 - $^\circ\text{F}$	ISO 8302

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical with Impact	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical without Impact	80.0 °C	176 °F	UL 746B
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	UL 94
	@Thickness 6.00 mm	@Thickness 0.236 in	
	5VA	5VA	UL 94
	@Thickness 6.00 mm	@Thickness 0.236 in	
Oxygen Index	35 %	35 %	ISO 4589

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.3	2.3	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.4	2.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
	27.0 kV/mm	686 kV/in	in oil; ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	35.0 kV/mm	889 kV/in	in oil; ASTM D149
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Dissipation Factor	0.0029	0.0029	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.010	0.010	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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

Ball Pressure Test: 75°C +/- 2°C
Descriptive Properties

PASSES
Value

IEC 60695-10-2
Comments

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