LEXAN™ FL900S resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

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 inpact strength, high heat resistance, flexural characteristics, creep resistance and processa- bility. 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 regidity, impact strength and toughness with UL 94 V-0 and 5V listings.

General Information			
UL YellowCard	E45329-236674		
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Features	Good Creep Resistance Good Processability Good Toughness High Heat Resistance High Impact Resistance Medium Rigidity		
Uses	Appliances Automotive Applications Business Equipment Structural Parts Telecommunications		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.948	g/cm³	ASTM D792
Molding Shrinkage - Flow [1]	0.50 to 0.70	%	Internal Method
Water Absorption			
24 hr	0.15	%	ASTM D570
Saturation, 23°C	0.35	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ISO 527-2/1
Tensile Stress (Break)	42.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	%	ISO 527-2/5
Flexural Modulus [2]	2400	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Gardner Impact	50.0	J	Internal Method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [3] (1.8 MPa, Unannealed, 64.0 mm Span)	128	°C	ISO 75-2/Af
Ball Pressure Test			IEC 60695-10-2
75°C	Pass		
125°C	Pass		
CLTE - Flow (23 to 80°C)	3.5E-5	cm/cm/°C	ISO 11359-2
Specific Heat	280	J/kg/°C	ASTM C351
Thermal Conductivity	0.15	W/m/K	ISO 8302
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength			ASTM D149
0.800 mm, in Oil	35	kV/mm	
1.60 mm, in Oil	27	kV/mm	
3.20 mm, in Oil	17	kV/mm	
Relative Permittivity			IEC 60250
100 Hz	2.41		
1 MHz	2.30		
Dissipation Factor			IEC 60250
100 Hz	2.9E-3		
1 MHz	0.010		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
3.00 mm	V-0		
5.00 mm	5VA		
Oxygen Index	35	%	ISO 4589-2
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Filler Content	5.0	%	ASTM D229
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	265 to 295	°C	
Middle Temperature	280 to 310	°C	
Front Temperature	290 to 320	°C	
Nozzle Temperature	290 to 320	°C	
Processing (Melt) Temp	290 to 320	°C	
Mold Temperature	65.0 to 95.0	°C	

NOTE	
1.	Tensile Bar
2.	2.0 mm/min
3.	80*10*4 mm

Recommended distributors for this material

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