

SABIC Innovative Plastics Lexan® FL920 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LEXAN FL920 is a foamable grade of LEXAN polycarbonate, containing 20% glass-fibre is designed of applications where superior flexural and tensile characteristics are required. LEXAN FL920 also offers an UL Flammability Standard 94 rating of V-0 and 5V and high heat resistance. LEXAN FL920 is the material to use for high load bearing and/or high heat applications such as in photo optical equipment, business or other large components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-FL920-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	3.50 GPa	508 ksi	1 mm/min; ISO 527
Flexural Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	4.30 GPa	624 ksi	2 mm/min; ISO 178

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.140 W/m-K	0.972 BTU-in/hr-ft ² -°F	ISO 8302
UL RTI, Electrical	110 °C	230 °F	UL 746B
UL RTI, Mechanical with Impact	110 °C	230 °F	UL 746B
UL RTI, Mechanical without Impact	110 °C	230 °F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 6.00 mm	@Thickness 0.236 in	
	5VA	5VA	UL 94 by SABIC-IP
	@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	
Dissipation Factor	0.0029	0.0029	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0081	0.0081	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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