

LEXANT™ FR RESINS FL910

REGION AMERICAS

DESCRIPTION

LEXANT™ FL910 resin is a 10% glass fiber filled foamable polycarbonate. Flame retardant, UL94 V0 and 5VA rated, High flexural strength and modulus. Injection moldable.

TYPICAL PROPERTY VALUES

Revision 20260203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
FOAM - MECHANICAL 6.4 mm Wt Reduction	10	%	-
Tensile Stress, yield, 6.35 mm	52	MPa	ASTM D638
Tensile Strain, break, 6.35 mm	4.8	%	ASTM D638
Tensile Modulus, 6.4 mm	3170	MPa	ASTM D638
Flexural Stress, yield, 6.4 mm	89	MPa	ASTM D790
Flexural Modulus, 6.4 mm	3510	MPa	ASTM D790
IMPACT			
FOAM - IMPACT 6.4 mm Wt Reduction	10	%	-
Izod Impact, unnotched, 23°C	854	J/m	ASTM D4812
Falling Dart Impact, 23°C	46	J	SABIC method
THERMAL			
FOAM - THERMAL 6.4mm Wt Reduction	10	%	-
HDT, 0.45 MPa, 6.4 mm, unannealed	140	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	133	°C	ASTM D648
CTE, -40°C to 95°C, flow	3.24E-05	1/°C	ASTM E831
Specific Heat	1.19	J/g·°C	ASTM C351
Thermal Conductivity	0.13	W/m·°C	ASTM C177
Relative Temp Index, Elec	80	°C	UL 746B
Relative Temp Index, Mech w/impact	80	°C	UL 746B
Relative Temp Index, Mech w/o impact	80	°C	UL 746B
PHYSICAL			
FOAM - PHYSICAL 6.4mm Wt Reduction	10	%	-
Specific Gravity	1.25	-	ASTM D792
Specific Gravity, foam molded	1.12	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.16	%	ASTM D570
Water Absorption, (23°C/Saturated)	0.32	%	ASTM D570
Mold Shrinkage, flow, 6.4 mm	0.4 – 0.6	%	SABIC method
ELECTRICAL			
FOAM - ELECTRICAL 6.4 mm Wt Reduction	20	%	-
Volume Resistivity	2.4E+17	Ω.cm	ASTM D257
Surface Resistivity	>1.1E+17	Ω	ASTM D257
Relative Permittivity, 100 Hz	2.45	-	ASTM D150
Relative Permittivity, 1 MHz	2.4	-	ASTM D150
Dissipation Factor, 100 Hz	0.0013	-	ASTM D150

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CHEMISTRY THAT MATTERS™



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Dissipation Factor, 1 MHz	0.0065	-	ASTM D150
Arc Resistance, Tungsten (PLC)	7	PLC Code	ASTM D495
High Voltage Arc Track Rate (PLC)	4	PLC Code	UL 746A
Comparative Tracking Index (UL) (PLC)	3	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-220929	-	-
FOAM - Flame Class Minimum Density	0.85	g/cm ³	-
UL Recognized, 94V-0 Flame Class Rating	2.99	mm	UL 94
UL Recognized, 94-5VA Flame Class Rating	2.99	mm	UL 94
STRUCTURAL FOAM MOLDING			
Blowing Agent, Physical System	Nitrogen	-	-
Blowing Agent, Chemical System	FLC95	-	-
Drying Time (Blowing Agent)	4	Hrs	-
Drying Temperature (Blowing Agent)	105	°C	-
Concentration Range (Blowing Agent)	3 – 5	%	-
Recommended Concentration (Blowing Agent)	1.5	%	-
Drying Temperature (Resin)	120	°C	-
Drying Time (Resin)	3 – 4	Hrs	-
Drying Time (Resin, Cumulative)	48	Hrs	-
Melt Temperature	290 – 315	°C	-
Nozzle Temperature	270 – 295	°C	-
Front Temperature	295 – 310	°C	-
Middle Temperature	295 – 310	°C	-
Rear Temperature	255 – 265	°C	-
Mold Temperature	70 – 95	°C	-

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