Technical specification

Lexan FR60

Description High transparency. Extremely high impact strength. Dimensionally stable. Good thermal dimensional stability. Excellent dielectric properties. Good creep resistance. Suitable for use in machines and automotive manufacturing. UL 94 V-0 approved.

Properties	Unit	Value	Test method
Specific gravity	g/cm³	1.32	ISO 1183
Water absorption, saturation, 23°C	%	0.28	ISO 62
Haze	%	1.0	ASTM D1003
Light transmission	%	85-88	ASTM D1003
Tensile stress			
At yield	mPa	70	ISO R527
At break	mPa	60	ISO R527
Strain at break	%	25	ISO R527
Tensile modulus	mPa	2200	ISO R527
Tear strenght			
Initation	kN/m	298	ASTM D1004
Propagation	kN/m	6	ASTM D1922
Tensile heat distortion, 0.35 N/mm²	°C	150	ASTM D1637
DTUL, 1.82 N/mm²	°C	135	ISO 75
Dialectic strength, 23°C, in oil, short term, 375 micron	kV/mm	59	IEC 243-1
Relative permittivity	°C	100-110	
At 50 Hz		2.9	IEC 250
At 1 kHz		2.8	IEC 250
At 1 MHz		2.8	IEC 250
Dissipation Factor			
At 50 Hz		0.0026	IEC 250
At 1 kHz		0.0028	IEC 250
At 1 MHz		0.0117	IEC 250
Volume resistivity	Ohm.m	10^14	IEC 93
Oxygen index	%	33	ISO 4589
UL flammability	Mm	V0, 0.250	UL 94
Flash Point	°C	440	-
Self ignition temperature	°C	605	-
FMVSS 302	-	All pass	ASTM D618
NFPA 258-NBS	-	-	ASTM E662
Smoke Chamber Test (0.25mm)		D(4) = 6 D(max) = 36	

This specification is given by our best knowledge and might be submitted to changes.

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