

Lexan* Resin FL405

Americas: COMMERCIAL

Various weight reductions at 0.250" (6.38 mm) wall. Impact resistant, superior processing, excellent surface. UL94 V-0 at 0.120

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
FOAM - MECHANICAL 6.4 mm Wt Reduction	10	%	-
Tensile Stress, yield, 6.35 mm	54	MPa	ASTM D 638
Tensile Strain, break, 6.35 mm	7.2	%	ASTM D 638
Tensile Modulus, 6.4 mm	2100	MPa	ASTM D 638
Flexural Stress, yield, 6.4 mm	86	MPa	ASTM D 790
Flexural Modulus, 6.4 mm	2480	MPa	ASTM D 790
ІМРАСТ	Value	Unit	Standard
FOAM - IMPACT 6.4 mm Wt Reduction	10	%	-
Izod Impact, unnotched, 23°C	2670	J/m	ASTM D 4812
Falling Dart Impact, 23°C	61	J	SABIC Method
THERMAL	Value	Unit	Standard
FOAM - THERMAL 6.4mm Wt Reduction	10	%	-
HDT, 0.45 MPa, 6.4 mm, unannealed	137	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	126	°C	ASTM D 648
CTE, -40°C to 95°C, flow	6.66E-05	1/°C	ASTM E 831
Specific Heat	1.33	J/g-°C	ASTM C 351
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	Value	Unit	Standard
FOAM - PHYSICAL 6.4mm Wt Reduction	10	%	-
Specific Gravity	1.2	-	ASTM D 792
Specific Gravity, foam molded	1.08	-	ASTM D 792
Water Absorption, 24 hours	0.14	%	ASTM D 570
Water Absorption, equilibrium, 23C	0.31	%	ASTM D 570
Mold Shrinkage, flow, 6.4 mm	0.6 - 0.8	%	SABIC Method
ELECTRICAL	Value	Unit	Standard
FOAM - ELECTRICAL 6.4 mm Wt Reduction	20	%	-
Volume Resistivity	3.5E+17	Ohm-cm	ASTM D 257
Surface Resistivity	>1.1E+17	Ohm	ASTM D 257
Relative Permittivity, 100 Hz	2.42	-	ASTM D 150
Relative Permittivity, 1 MHz	2.43	-	ASTM D 150
Dissipation Factor, 100 Hz	0.0011	-	ASTM D 150
Dissipation Factor, 1 MHz	0.0044	-	ASTM D 150
FLAME CHARACTERISTICS	Value	Unit	Standard
FOAM - Flame Class Minimum Density	1.06	g/cm ³	-
UL Recognized, 94V-0 Flame Class Rating (3)	3.04	mm	UL 94
UL Recognized, 94-5VA Rating (3)	6.09	mm	UL 94
Oxygen Index (LOI)	39	%	ASTM D 2863

Radiant Panel Listing	YES	-	UL Tested
		Source GM	D. last updated:03/14/2002

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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