

LEXANTM RESIN EX1632T

REGION AMERICAS

DESCRIPTION

LEXAN EX1632T polycarbonate resin is designed for use in multi-wall sheet or profile extrusion applications. It contains branched polycarbonate resin, release, and UV stabilizer. It is available in a limited number of colors.

TYPICAL PROPERTY VALUES

Revision 20190814

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	61	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	57	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	6.3	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	98.8	%	ASTM D 638
Tensile Modulus, 5 mm/min	2210	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	99	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2370	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	800	J/m	ASTM D 256
Izod Impact, notched, -30°C	152	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	74	J	ASTM D 3763
THERMAL			
Vicat Softening Temp, Rate B/50	145	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	130	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.5E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.6E-05	1/°C	ASTM E 831
Vicat Softening Temp, Rate B/120	147	°C	ISO 306
PHYSICAL			
Mold Shrinkage, flow, 3.2 mm	0.5 – 0.7	%	SABIC method
Melt Flow Rate, 300°C/1.2 kgf	6	g/10 min	ASTM D 1238
Density	1.19	g/cm ³	ISO 1183
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-100989271	-	-
UL Compliant, 94HB Flame Class Rating	0.8	mm	UL 94 by SABIC-IP
MULTIWALL SHEET EXTRUSION			
Drying Temperature	120	°C	
Drying Time	2 – 4	hrs	
Barrel - Zone 1 Temperature	240 – 270	°C	
Barrel - Zone 2 Temperature	240 – 270	°C	
Barrel - Zone 3 Temperature	240 – 270	°C	
Hopper Temperature	100 – 120	°C	
Adapter Temperature	220 – 260	°C	
Die Temperature	220 – 280	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Temperature	220 – 280	°C	
Calibrator Temperature	50 – 100	°C	

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