

SABIC LEXAN™ EX1332T

LEXAN EX1332T polycarbonate resin is designed for use in multi-wall sheet or profile extrusion applications. It contains branched polycarbonate resin, release, and is UV stabilized. It is available in a limited number of colors. Information provided by SABIC

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC method
Melt Flow	3.0 g/10 min @Load 1.20 kg, Temperature 300 °C	3.0 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238
Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	61.0 MPa	8850 psi	50 mm/min; ASTM D638
Elongation at Break	96.3 %	96.3 %	50 mm/min; ASTM D638
Elongation at Yield	6.2 %	6.2 %	50 mm/min; ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.33 GPa	338 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.12 J/cm	15.2 ft-lb/in	ASTM D256
	1.56 J/cm @Temperature -30.0 °C	2.92 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	72.0 J	53.1 ft-lb	ASTM D3763
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C @Temperature -40.0 - 40.0 °C	36.1 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E831
CTE, linear, Transverse to Flow	68.0 µm/m-°C @Temperature -40.0 - 40.0 °C	37.8 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	141 °C @Thickness 3.20 mm	286 °F @Thickness 0.126 in	unannealed; ASTM D648

Deflection Temperature at 1.8 MPa (264 psi)	131 °C @Thickness 3.20 mm	268 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	146 °C	295 °F	Rate B/50; ASTM D1525
	150 °C	302 °F	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	UL 94 by SABIC-IP

Processing Properties	Metric	English	Comments
Processing Temperature	100 - 120 °C	212 - 248 °F	Hopper Temperature
Zone 1	260 - 300 °C	500 - 572 °F	Multiwall Sheet Extrusion
Zone 2	260 - 290 °C	500 - 554 °F	Multiwall Sheet Extrusion
Zone 3	260 - 290 °C	500 - 554 °F	Multiwall Sheet Extrusion
Adapter Temperature	240 - 280 °C	464 - 536 °F	Multiwall Sheet Extrusion
Die Temperature	240 - 300 °C	464 - 572 °F	Multiwall Sheet Extrusion
Melt Temperature	260 - 300 °C	500 - 572 °F	
Drying Temperature	120 °C	248 °F	Multiwall Sheet Extrusion
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Multiwall Sheet Extrusion
Precipitation Temperature	50.0 - 100 °C	122 - 212 °F	Calibrator