

LEXAN™ EX1632T resin

Polycarbonate
SABIC Innovative Plastics Europe

Message:

LEXAN EX1632T polycarbonate resin, MVR (300C/1.2kg) 6 cm3/10min, high viscosity, branched, extrusion, mold release, UV stabilized, transparent, translucent and opaque colors. Multiwall sheet, Profiles.

General Information			
UL YellowCard	E45329-100753449		
Additive	Mold Release		
	UV Stabilizer		
Features	Branched Polymer Structure		
	High Viscosity		
Uses	Profiles		
	Sheet		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Colors Available		
	Opaque		
	Translucent		
Processing Method	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
300°C/1.2 kg	6.00	cm ³ /10min	
300°C/2.16 kg	11.0	cm ³ /10min	
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.35	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	65.0	MPa	
Break	70.0	MPa	
Tensile Strain			ISO 527-2/50

Yield	7.0	%	
Break	> 70	%	
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ²			ISO 179/1eA
-30°C	50	kJ/m ²	
23°C	70	kJ/m ²	
Charpy Unnotched Impact Strength ³			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength ⁴			ISO 180/1A
-30°C	55	kJ/m ²	
23°C	75	kJ/m ²	
Unnotched Izod Impact Strength ⁵			ISO 180/1U
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed, 64.0 mm Span)	130	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	149	°C	ISO 306/B50
--	150	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 80°C	7.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	
Thermal Conductivity	0.20	W/m/K	ISO 8302
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
3.00 mm	HB		
Glow Wire Flammability Index (1.00 mm)	850	°C	IEC 60695-2-12
Extrusion	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Hopper Temperature	100 to 120	°C	
Cylinder Zone 1 Temp.	240 to 270	°C	
Cylinder Zone 2 Temp.	240 to 270	°C	
Cylinder Zone 3 Temp.	240 to 270	°C	
Adapter Temperature	220 to 260	°C	
Melt Temperature	220 to 280	°C	

Die Temperature	220 to 280	°C
Calibration Temp, First	50.0 to 100	°C

NOTE		
1.	2.0 mm/min	
2.	80*10*3 sp=62mm	
3.	80*10*3 sp=62mm	
4.	80*10*3	
5.	80*10*3	
6.	80*10*4 mm	

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