

LEXAN™ EX9332T resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

LEXAN® EX9332T polycarbonate resin, MVR (300C/1.2kg) 3 cm³/10min, high viscosity, branched, extrusion, flame retardant, mold release, UV stabilized, transparent, translucent and opaque colors. Material typically used in railway applications and building & construction. Multiwall sheet, solid sheet, pipe, profiles

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
	Good demoulding performance		
	Viscosity, High		
	Branched polymer structure		
	Flame retardancy		
Uses	Piping system		
	Building materials		
	Architectural application field		
	Sheet		
	Profile		
Appearance	Translucent		
	Opacity		
	Clear/transparent		
Processing Method	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
300°C/1.2 kg	3.00	cm³/10min	ISO 1133
300°C/2.16 kg	5.50	cm³/10min	ISO 1133
Molding Shrinkage - Flow ¹	0.40 - 0.60	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.32	%	ISO 62
Equilibrium, 23°C, 50% RH	0.13	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	95.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50

Yield	65.0	MPa	ISO 527-2/50
Fracture	70.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	ISO 527-2/50
Fracture	> 70	%	ISO 527-2/50
Flexural Modulus ²	2350	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	9.00	mg	Internal method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	10	kJ/m ²	ISO 179/1eA
23°C	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact ⁵			ISO 180/1A
-30°C	10	kJ/m ²	ISO 180/1A
23°C	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-30°C	No Break		ISO 180/1U
23°C	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, unannealed, 100 mm span	148	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	135	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	155	°C	ISO 306/B50
--	156	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE - Flow (23 to 80°C)	7.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.20	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Dielectric Strength (3.20 mm, in Oil)	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.70		IEC 60250
60 Hz	2.70		IEC 60250
1 MHz	2.70		IEC 60250
Dissipation Factor			IEC 60250
50 Hz	1.0E-3		IEC 60250

60 Hz	1.0E-3		IEC 60250
1 MHz	0.010		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
	960		
Glow Wire Flammability Index (1.00 mm)	850	°C	IEC 60695-2-12
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ISO 489
Transmittance (2540 μm)	88.0	%	ASTM D1003
Haze (2540 μm)	< 0.80	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 - 4.0	hr	
Hopper Temperature	100 - 120	°C	
Cylinder Zone 1 Temp.	260 - 300	°C	
Cylinder Zone 2 Temp.	260 - 290	°C	
Cylinder Zone 3 Temp.	260 - 290	°C	
Adapter Temperature	240 - 280	°C	
Melt Temperature	260 - 300	°C	
Die Temperature	240 - 300	°C	
Calibration Temp, First	50.0 - 100	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*3 sp=62mm		
4.	80*10*3 sp=62mm		
5.	80*10*3		
6.	80*10*3		
7.	120*10*4 mm		

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