

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			
UL YellowCard	E45329-100764007		
Additive	Flame Retardant		
	Mold Release		
	UV Stabilizer		
Features	Branched Polymer Structure		
	Flame Retardant		
	High Viscosity		
Uses	Building Materials		
	Construction Applications		
	Piping		
	Profiles		
	Sheet		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Opaque		
	Translucent		
Processing Method	Sheet Extrusion		
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	
300°C/2.16 kg	5.50	cm³/10min	
Molding Shrinkage - Flow ¹	0.40 to 0.60	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.32	%	
Equilibrium, 23°C, 50% RH	0.13	%	
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	
Break	70.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	> 70	%	
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	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength ⁵			ISO 180/1A
-30°C	10	kJ/m ²	
23°C	11	kJ/m ²	
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-30°C	No Break		
23°C	No Break		
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
Electric Strength (3.20 mm, in Oil)	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.70		
60 Hz	2.70		

1 MHz	2.70		
Dissipation Factor			IEC 60250
50 Hz	1.0E-3		
60 Hz	1.0E-3		
1 MHz	0.010		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
	850		
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
	37		
Oxygen Index	37	%	ISO 4589-2
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 to 4.0	hr	
Hopper Temperature	100 to 120	°C	
Cylinder Zone 1 Temp.	260 to 300	°C	
Cylinder Zone 2 Temp.	260 to 290	°C	
Cylinder Zone 3 Temp.	260 to 290	°C	
Adapter Temperature	240 to 280	°C	
Melt Temperature	260 to 300	°C	
Die Temperature	240 to 300	°C	
Calibration Temp, First	50.0 to 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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT