

LEXAN™ EX1632TC resin

Polycarbonate
SABIC Innovative Plastics Europe

Message:
LEXAN® EX1632TC 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			
Additive	Mold Release		
	UV Stabilizer		
Features	Branched Polymer Structure		
	Good Mold Release		
	Good UV Resistance		
	High Viscosity		
Uses	Profiles		
	Sheet		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Opaque		
	Translucent		
Processing Method	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
300°C/1.2 kg	6.00	cm³/10min	
300°C/2.16 kg	11.0	cm³/10min	
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		Test Method
Flame Rating			UL 94
0.800 mm	HB		
3.00 mm	HB		
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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