

LEXAN™ 3262R resin

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LEXAN 3262R Polycarbonate (PC) resin is a 20% glass fiber filled, injection moldable grade. This non-chlorinated, non-brominated flame retardant GF-PC has an UL-94 V2@1.5mm rating and is available in various opaque color options.

General Information			
UL YellowCard	E207780-101304988		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
Appearance	Colors Available		
	Opaque		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.30	g/cm ³	ASTM D792
--	1.34	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	13	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	11.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.20 to 0.50	%	
Across Flow : 3.20 mm	0.20 to 0.50	%	
Water Absorption			ISO 62
Saturation, 23°C	0.29	%	
Equilibrium, 23°C, 50% RH	0.12	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	5500	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	90.0	MPa	
Break	87.0	MPa	
Tensile Elongation ³ (Yield)	3.1	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	5000	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	156	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-30°C	110	J/m	
23°C	110	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	138	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	288 to 310	°C	
Middle Temperature	299 to 321	°C	
Front Temperature	310 to 332	°C	
Nozzle Temperature	304 to 327	°C	
Processing (Melt) Temp	310 to 332	°C	
Mold Temperature	82.0 to 116	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		

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