

LEXAN™ FXEMPX2 resin

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LEXAN FXEMPX2 polycarbonate (PC) siloxane copolymer resin is a injection molding (IM) grade with release properties. This resin offers good low temperature ductility in combination with medium flow characteristics and excellent processability with opportunities for shorter IM cycle times compared to standard IM PC resins. LEXAN FXEMPX2 resin is a general purpose product available for wide range of colors and may be an excellent candidate for a broad range of applications.

General Information			
Features	Copolymer		
	Ductile		
	General Purpose		
	Good Processability		
	Medium Flow		
Uses	General Purpose		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.18	g/cm ³	ASTM D792
--	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	14	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.40 to 0.80	%	
Across Flow : 3.20 mm	0.40 to 0.80	%	
Water Absorption			ISO 62
Saturation, 23°C	0.12	%	
Equilibrium, 23°C, 50% RH	0.090	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2100	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	57.0	MPa	
Break	56.0	MPa	
Tensile Elongation ³			ASTM D638
Yield	4.8	%	
Break	90	%	
Flexural Modulus ⁴ (50.0 mm Span)	2100	MPa	ASTM D790

Flexural Strength ⁵ (Yield, 50.0 mm Span)	86.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	650	J/m	
23°C	810	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	116	°C	ASTM D648
Vicat Softening Temperature	138	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
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	271 to 293	°C	
Middle Temperature	282 to 304	°C	
Front Temperature	293 to 316	°C	
Nozzle Temperature	288 to 310	°C	
Processing (Melt) Temp	293 to 316	°C	
Mold Temperature	71.1 to 93.3	°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.	50 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		

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