

LEXAN™ ADX1016R resin

Polycarbonate
SABIC Innovative Plastics Europe

Message:
LEXAN Copolymer resin with improved chemical resistance, available only in limited colors.

General Information			
Features	Copolymer		
	Good Chemical Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	8.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2290	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	64.0	MPa	
Break	73.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	79	%	
Flexural Modulus ¹	2250	MPa	ISO 178
Flexural Stress	88.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ²			ISO 179/1eA
-30°C	24	kJ/m ²	
23°C	50	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	23	kJ/m ²	
23°C	51	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)	108	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	125	°C	ISO 306/B50
--	126	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : -40 to 40°C	7.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	105	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0 to 60.0	°C	
Rear Temperature	270 to 300	°C	
Middle Temperature	280 to 310	°C	
Front Temperature	290 to 320	°C	
Nozzle Temperature	280 to 310	°C	
Processing (Melt) Temp	290 to 320	°C	
Mold Temperature	60.0 to 90.0	°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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