

LEXAN™ 915AU resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

LEXAN resin grade 915AU is a flame retardant polycarbonate featuring non brominated and non chlorinated FR systems, with good flow, and good UV stability. It is available in transparent colors, intended to meet WEEE/RoHS requirements for various applications

General Information			
UL YellowCard	E45329-100976141		
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Flow		
	Good UV Resistance		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	23	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	21.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow			Internal Method
-- ¹	0.50 to 0.70	%	
3.20 mm	0.50 to 0.70	%	
Water Absorption			ISO 62
Saturation, 23°C	0.35	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	2400	MPa	ASTM D638
--	2400	MPa	ISO 527-2/1
Tensile Strength			
Yield ³	66.0	MPa	ASTM D638
Yield	66.0	MPa	ISO 527-2/50
Break ⁴	66.0	MPa	ASTM D638
Break	66.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁵	6.0	%	ASTM D638

Yield	6.0	%	ISO 527-2/50
Break ⁶	100	%	ASTM D638
Break	100	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁷	2400	MPa	ASTM D790
-- ⁸	2400	MPa	ISO 178
Flexural Stress			
--	98.0	MPa	ISO 178
Yield, 50.0 mm Span ⁹	95.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C ¹⁰	12	kJ/m ²	ISO 179/1eA
23°C ¹¹	65	kJ/m ²	ISO 179/1eA
23°C	11	kJ/m ²	ISO 179/2C
Charpy Unnotched Impact Strength ¹²			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact			
-30°C	110	J/m	ASTM D256
23°C	650	J/m	ASTM D256
-30°C ¹³	11	kJ/m ²	ISO 180/1A
23°C ¹⁴	65	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹⁵			ISO 180/1U
-30°C	No Break		
23°C	No Break		
Instrumented Dart Impact (23°C, Total Energy)	60.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 100 mm Span ¹⁶	134	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 3.20 mm	125	°C	ASTM D648
1.8 MPa, Unannealed, 100 mm Span ¹⁷	123	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	140	°C	ASTM D1525, ISO 306/B50 12 ¹⁸
--	141	°C	ISO 306/B120
CLTE			
Flow : -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-2		
3.00 mm	V-0		

Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ISO 489
Transmittance (2540 μm)	88.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	260 to 280	°C	
Middle Temperature	270 to 290	°C	
Front Temperature	280 to 310	°C	
Nozzle Temperature	270 to 290	°C	
Processing (Melt) Temp	280 to 310	°C	
Mold Temperature	80.0 to 110	°C	
NOTE			
1.	Tensile Bar		
2.	5.0 mm/min		
3.	Type I, 50 mm/min		
4.	Type I, 50 mm/min		
5.	Type I, 50 mm/min		
6.	Type I, 50 mm/min		
7.	1.3 mm/min		
8.	2.0 mm/min		
9.	1.3 mm/min		
10.	80*10*3 sp=62mm		
11.	80*10*3 sp=62mm		
12.	80*10*3 sp=62mm		
13.	80*10*3		
14.	80*10*3		
15.	80*10*3		
16.	120*10*4 mm		
17.	120*10*4 mm		
18.	Rate B (120°C/h), Loading 2 (50 N)		

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