

CYCOLOY™ 915AU resin

Polycarbonate

SABIC Innovative Plastics Asia Pacific

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			
Additive	Flame retardancy		
Features	Chlorine Free		
	Good liquidity		
	Bromine-free		
	Flame retardancy		
Agency Ratings	EU 2002/96/EC (WEEE)		
Appearance	Available colors		
	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 (3.20 mm)	0.50 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.35	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2400	MPa	ASTM D638
--	2400	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	66.0	MPa	ASTM D638
Yield	66.0	MPa	ISO 527-2/50
Fracture ³	66.0	MPa	ASTM D638
Fracture	66.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50
Fracture ⁵	100	%	ASTM D638

Fracture	100	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	2400	MPa	ASTM D790
-- ⁷	2400	MPa	ISO 178
Flexural Stress			
--	98.0	MPa	ISO 178
Yield, 50.0mm span ⁸	95.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹			ISO 179/1eA
-30°C	12	kJ/m ²	ISO 179/1eA
23°C	65	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ¹⁰			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			
-30°C	110	J/m	ASTM D256
23°C	650	J/m	ASTM D256
-30°C ¹¹	11	kJ/m ²	ISO 180/1A
23°C ¹²	65	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹³			ISO 180/1U
-30°C	No Break		ISO 180/1U
23°C	No Break		ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	60.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	125	°C	ASTM D648
1.8 MPa, unannealed, 100 mm span ¹⁴	123	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	140	°C	ASTM D1525, ISO 306/B50 ¹⁵
--	141	°C	ISO 306/B120
Linear thermal expansion coefficient			
Flow: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.5 mm	V-2		UL 94
3.0 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	

Hopper Temperature	60 - 80	°C
Rear Temperature	260 - 280	°C
Middle Temperature	270 - 290	°C
Front Temperature	280 - 310	°C
Nozzle Temperature	270 - 290	°C
Processing (Melt) Temp	280 - 310	°C
Mold Temperature	80 - 110	°C

NOTE

1.	5.0 mm/min
2.	Type 1, 50mm/min
3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	Type 1, 50mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*3 sp=62mm
10.	80*10*3 sp=62mm
11.	80*10*3
12.	80*10*3
13.	80*10*3
14.	120*10*4 mm
15.	标准 B (120°C/h), 载荷2 (50N)

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