LEXAN™ 9915A resin

Polycarbonate

SABIC Innovative Plastics

Message:

LEXAN 9915A Polycarbonate (PC) resin is an un-filled, extrusion or injection moldable grade; non-chlorinated, non-brominated flame retardant systems with UL-90 V0 rating @1.5mm. It is UV stabilized & available in transparent & tinted color options.

General Information			
UL YellowCard	E121562-102336013		
Additive	Flame Retardant UV Stabilizer		
Features	Bromine Free Chlorine Free Flame Retardant Good UV Resistance		
Appearance	Clear/Transparent Colors Available		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			ASTM D792
--	1.20	g/cm³	
--	1.07	g/cm³	
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.3	g/10 min	ASTM D1238
Molding Shrinkage - Flow [1]	0.60 to 0.80	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2]	2320	MPa	ASTM D638
Tensile Strength [3]			ASTM D638
Yield	64.0	MPa	
Break	62.0	MPa	
Tensile Elongation [4]			ASTM D638
Yield	6.0	%	
Break	110	%	
Flexural Modulus [5] (50.0 mm Span)	2330	MPa	ASTM D790
Flexural Strength [6] (Yield, 50.0 mm Span)	101	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C	120	J/m	

23°C	800	J/m	
Unnotched Izod Impact (23°C)	2100	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Energy at Peak Load)	75.0	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	142	°C	
1.8 MPa, Unannealed, 3.20 mm	138	°C	
Vicat Softening Temperature	146	°C	ISO 306/B120
CLTE			ASTM E831
Flow : -40 to 95°C	6.8E-5	cm/cm/°C	
Transverse : -40 to 95°C	6.8E-5	cm/cm/°C	
RTI Elec	125	°C	UL 746
RTI Imp	115	°C	UL 746
RTI Str	125	°C	UL 746
Electrical	**Nominal Value**		**Test Method**
Comparative Tracking Index (CTI)	PLC 3		UL 746
High Amp Arc Ignition (HAI)	PLC 1		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.50 mm)	V-0		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	260 to 282	°C	
Middle Temperature	271 to 293	°C	
Front Temperature	282 to 304	°C	
Nozzle Temperature	277 to 299	°C	
Processing (Melt) Temp	282 to 304	°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.	Tensile Bar		
2.	50 mm/min		
3.	Type I, 50 mm/min		
4.	Type I, 50 mm/min		
5.	1.3 mm/min		

6.	1.3 mm/min

Recommended distributors for this material

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