LEXAN™ VISUALFX™ RESIN LUX9130T

REGION ASIA

DESCRIPTION

LUX9130T Polycarbonate (PC) resin is a non-filled, injection moldable grade. This non-chlorinated, non-brominated flame retardant PC has an UL-94 V0 rating at 1.5 mm / 5VA rating at 6.0mm and is UV stabilized providing additional weathering capability. LUX9130T is high transparency, extremly low haze and bubble free for thick part molding.LUX9130T is available in clear transparent and tinted color options that is an excellent candidate for a wide variety of applications.

TYPICAL PROPERTY VALUES

Revision 20260818

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 50 mm/min	64	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	59	MPa	ASTM D638
Tensile Strain, Yield			
Type I, 50 mm/min	6	%	ASTM D638
50 mm/min	6	%	ISO 527
Tensile Strain, Break			
Type I, 50 mm/min	72	%	ASTM D638
50 mm/min	52	%	ISO 527
Tensile Modulus			
50 mm/min	2370	MPa	ASTM D638
1 mm/min	2400	MPa	ISO 527
Flexural Stress, yld, 1.3 mm/min, 50 mm span	98	MPa	ASTM D790
Flexural Modulus			
1.3 mm/min, 50 mm span	2300	MPa	ASTM D790
2 mm/min	2410	MPa	ISO 178
Tensile Stress, yield, 50 mm/min	64	MPa	ISO 527
Tensile Stress, break, 50 mm/min	50	MPa	ISO 527
IMPACT [1]			
Izod Impact, Unnotched			
23°C	N.B.	J/m	ASTM D4812
-30°C	N.B.	J/m	ASTM D4812
80*10*3 +23°C	130	kJ/m²	ISO 180/1U
80*10*3 -30°C	130	kJ/m²	ISO 180/1U
Izod impact, notched			
23°C	100	J/m	ASTM D256
-30°C	90	J/m	ASTM D256
80*10*3 +23°C	9	kJ/m²	ISO 180/1A
80*10*3 -30°C	9	kJ/m²	ISO 180/1A
Instrumented Dart Impact Total Energy, 23°C	55	J	ASTM D3763
Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	9	kJ/m²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	9	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU

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THERMAL [1]			
Vicat Softening Temp, Rate B/50	137	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	131	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	120	°C	ASTM D648
CTE, -40°C to 40°C, flow	7.1E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	7.1E-05	1/°C	ASTM E831
CTE, 23°C to 80°C, flow	7.4E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, xflow	8.E-05	1/°C	ISO 11359-2
Ball Pressure Test, 125°C +/- 2°C	Pass	-	IEC 60695-10-2
Vicat Softening Temp, Rate B/50	137	°C	ISO 306
Vicat Softening Temp, Rate B/120	139	°C	ISO 306
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	131	°C	ISO 75/Be
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	120	°C	ISO 75/Ae
Relative Temp Index, Elec [2]	125	°C	UL 746B
Relative Temp Index, Mech w/impact [2]	120	°C	UL 746B
Relative Temp Index, Mech w/o impact [2]	125	°C	UL 746B
PHYSICAL [1]			
Specific Gravity	1.19	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm [3]	0.45 – 0.65	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm [3]	0.5 – 0.7	%	SABIC method
Melt Flow Rate			
300°C/1.2 kgf	18	g/10 min	ASTM D1238
Density	1.2	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.1	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.01	%	ISO 62
Melt Volume Rate			
300°C/1.2 kg	17	cm³/10 min	ISO 1133
OPTICAL [1]			
Light Transmission			
6.0 mm	>88	%	ASTM D1003
1.0 mm	>90.5	%	SABIC method
2.0 mm	>90	%	SABIC method
3.0 mm	>89.5	%	SABIC method
ELECTRICAL [1]			
Dielectric Constant			
1.1 GHz	2.81	-	ASTM ES 7-83
Dissipation Factor			
1.1 GHz	0.0058	-	ASTM ES 7-83
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 1	≥1.5	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 3	≥0.4	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥6	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 1	≥0.4	mm	UL 746A
FLAME CHARACTERISTICS [2]			
UL Yellow Card Link	E207780-101299184	-	-

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Recognized, 94-5VA Flame Class Rating	≥6	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	≥1.5	mm	UL 94
UL Recognized, 94V-2 Flame Class Rating	≥0.4	mm	UL 94
Glow Wire Ignitability Temperature, 1.5 mm	850	°C	IEC 60695-2-13
Glow Wire Flammability Index, 1.5 mm	960	°C	IEC 60695-2-12
UV-light, water exposure/immersion	F1	-	UL 746C
INJECTION MOLDING [3]			
Drying Temperature	120	°C	
Drying Time	3 – 4	Hrs	
Drying Time (Cumulative)	48	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	290 – 310	°C	
Nozzle Temperature	280 – 305	°C	
Front - Zone 3 Temperature	290 – 310	°C	
Middle - Zone 2 Temperature	275 – 300	°C	
Rear - Zone 1 Temperature	265 – 290	°C	
Mold Temperature	70 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.,The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

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