

## SABIC Innovative Plastics Lexan® LUX9130C PC COPOLYMER (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Lexan® LUX9130C 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, high flow capability and is UV stabilized providing additional weathering capability. Lexan® LUX9130C is available in clear transparent and tinted color options that is an excellent candidate for a wide variety of applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-LUX9130C-PC-COPOLYMER-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-LUX9130C-PC-COPOLYMER-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.110 %	0.110 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.13 %	0.13 %	ISO 62
Linear Mold Shrinkage, Flow	0.0055 - 0.0075 cm/cm @Thickness 3.20 mm	0.0055 - 0.0075 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	18 g/10 min @Load 1.20 kg, Temperature 300 °C	18 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	17 g/10 min @Load 1.20 kg, Temperature 300 °C	17 g/10 min @Load 2.65 lb, Temperature 572 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
	57.0 MPa	8270 psi	50 mm/min; ISO 527
Tensile Strength, Yield	63.0 MPa	9140 psi	50 mm/min; ISO 527
	67.0 MPa	9720 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	73 %	73 %	50 mm/min; ISO 527
	80 %	80 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
	2.40 GPa	348 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	96.0 MPa	13900 psi	2 mm/min; ISO 178
	103 MPa	14900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
	2.40 GPa	348 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256
	0.850 J/cm @Temperature -30.0 °C	1.59 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*3; ISO 180/1A
	9.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*3; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*3; ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	80*10*3; ISO 180/1U
Charpy Impact Unnotched	NB	NB	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	0.900 J/cm <sup>2</sup> @Temperature -30.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	65.0 J	47.9 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	37.8 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{°C}$	@Temperature -40.0 - 104 $\text{°F}$	
	77.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	42.8 $\mu\text{in}/\text{in}\cdot\text{°F}$	ISO 11359-2
	@Temperature 23.0 - 80.0 $\text{°C}$	@Temperature 73.4 - 176 $\text{°F}$	
CTE, linear, Transverse to Flow	70.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{°C}$	@Temperature -40.0 - 104 $\text{°F}$	
	80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	ISO 11359-2
	@Temperature 23.0 - 80.0 $\text{°C}$	@Temperature 73.4 - 176 $\text{°F}$	
Deflection Temperature at 0.46 MPa (66 psi)	131 $\text{°C}$	268 $\text{°F}$	Edgew 120*10*4 sp=100mm; ISO 75/Be
	130 $\text{°C}$	266 $\text{°F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	121 $\text{°C}$	250 $\text{°F}$	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	120 $\text{°C}$	248 $\text{°F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	136 $\text{°C}$	277 $\text{°F}$	Rate B/50; ASTM D1525
	139 $\text{°C}$	282 $\text{°F}$	Rate B/50; ISO 306
	140 $\text{°C}$	284 $\text{°F}$	Rate B/120; ISO 306
UL RTI, Electrical	130 $\text{°C}$	266 $\text{°F}$	UL 746B
UL RTI, Mechanical with Impact	120 $\text{°C}$	248 $\text{°F}$	UL 746B
UL RTI, Mechanical without Impact	130 $\text{°C}$	266 $\text{°F}$	UL 746B
Flammability, UL94	V-2	V-2	UL 94
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	850 $\text{°C}$	1560 $\text{°F}$	IEC 60695-2-13
	960 $\text{°C}$	1760 $\text{°F}$	

Thermal Properties	Metric	English	Comments
	@ Thickness 1.50 mm	@ Thickness 0.0591 in	IEC 60695-2-12
Optical Properties	Metric	English	Comments
Transmission, Visible	>= 91 %	>= 91 %	2.54 mm; ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.78	2.78	ASTM ES 7-83
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
Dissipation Factor	0.0056	0.0056	ASTM ES 7-83
	@Frequency 1.10e+9 Hz	@Frequency 1.10e+9 Hz	

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	Pass	IEC 60695-10-2
UV-light, water exposure/immersion	F1	UL 746C

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