

## SABIC Innovative Plastics Lexan® 915AU PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-915AU-PC-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-915AU-PC-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.150 %	0.150 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.35 %	0.35 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method
	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	23 g/10 min @Load 1.20 kg, Temperature 300 °C	23 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	21 g/10 min @Load 1.20 kg, Temperature 300 °C	21 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	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D638
	66.0 MPa	9570 psi	50 mm/min; ISO 527
Tensile Strength, Yield	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D638
	66.0 MPa	9570 psi	50 mm/min; ISO 527
Elongation at Break	100 %	100 %	Type I, 50 mm/min; ASTM D638
	100 %	100 %	50 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527

Tensile Modulus Mechanical Properties	2.40 GPa Metric	348 ksi English	5 mm/min; ASTM D638 Comments
	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D790
	98.0 MPa	14200 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched	6.50 J/cm	12.2 ft-lb/in	ASTM D256
	1.10 J/cm	2.06 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	65.0 kJ/m <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	80*10*3; ISO 180/1A
	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	80*10*3; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	NB	NB	80*10*3; ISO 180/1U
	NB	NB	80*10*3; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	NB	NB	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	NB	NB	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	ISO 179/2C
	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	60.0 J	44.3 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties CTE, linear, Transverse to Flow	70.0 $\mu\text{m}/\text{m}\cdot\text{C}$ Metric	38.9 $\mu\text{in}/\text{in}\cdot\text{F}$ English	Comments ASTM E 831
	@Temperature -40.0 - 40.0 $^{\circ}\text{C}$	@Temperature -40.0 - 104 $^{\circ}\text{F}$	
	70.0 $\mu\text{m}/\text{m}\cdot\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^{\circ}\text{C}$	@Temperature -40.0 - 104 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	134 $^{\circ}\text{C}$	273 $^{\circ}\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	123 $^{\circ}\text{C}$	253 $^{\circ}\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	125 $^{\circ}\text{C}$	257 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	140 $^{\circ}\text{C}$	284 $^{\circ}\text{F}$	Rate B/50; ASTM D1525
	140 $^{\circ}\text{C}$	284 $^{\circ}\text{F}$	Rate B/50; ISO 306
	141 $^{\circ}\text{C}$	286 $^{\circ}\text{F}$	Rate B/120; ISO 306
Flammability, UL94	V-2	V-2	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	

  

Optical Properties	Metric	English	Comments
Refractive Index	1.586	1.586	ISO 489
Transmission, Visible	88 %	88 %	2.54 mm; ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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