

## SABIC Innovative Plastics Lexan® 923X PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Lexan\*923x is a UV stabilized high flow impact modified injection molding (IM) grade. This resin offers UL94 V0 @ 1.5mm flame retardancy based on non-bromine, non-chlorine FR systems, low temperature ductility characteristics and excellent processability with opportunities for shorter IM cycle times compared to standard PC. Lexan 923x resin is a product available in a wide range of opaque colors and may be an excellent candidate for a wide range of applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-923X-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-923X-PC-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm @Thickness 3.20 mm	0.0040 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 1.20 kg, Temperature 300 °C	16 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	110 %	110 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.10 GPa	305 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.75 J/cm	14.5 ft-lb/in	ASTM D256
	6.50 J/cm @Temperature -30.0 °C	12.2 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	65.0 J @Temperature 23.0 °C	47.9 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	33.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	62.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	34.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	123 $^\circ\text{C}$	253 $^\circ\text{F}$	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
UL RTI, Electrical	125 $^\circ\text{C}$	257 $^\circ\text{F}$	UL 746B
UL RTI, Mechanical with Impact	115 $^\circ\text{C}$	239 $^\circ\text{F}$	UL 746B
UL RTI, Mechanical without Impact	120 $^\circ\text{C}$	248 $^\circ\text{F}$	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	5VA	5VA	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	825 $^\circ\text{C}$	1520 $^\circ\text{F}$	IEC 60695-2-13
	825 $^\circ\text{C}$	1520 $^\circ\text{F}$	IEC 60695-2-13
	960 $^\circ\text{C}$	1760 $^\circ\text{F}$	IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China