

**Product Texts**

EXL9330 is an opaque (PC)-siloxane copolymer resin that offers extreme low temperature (-60 C) ductility in combination with excellent processability. This UV stabilized, medium flow resin features UL f1/V-0/5VA rating with non-chlorinated, non-brominated flame retardant agents for wide range of colors. EXL9330 is an excellent candidate for a broad range of applications such as mobile phones, tablets, industrial housings, electric circuit protection, personal safety helmets, electric vehicle supply equipment (EVSE) housings and connectors.

UL Yellow Card Link [E121562-220779](https://www.ul.com/yellow-card-link/E121562-220779)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	9	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2200	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C, 3mm	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	75	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	60	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	70	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	55	kJ/m <sup>2</sup>	ISO 180/1A
Ball indentation hardness	90	MPa	ISO 2039-1
<b>ASTM Data</b>			
Tensile Modulus	2100	MPa	ASTM D 638
Tensile Strength at Yield	58	MPa	ASTM D 638
Tensile Strength at Break	61	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	130	%	ASTM D 638
Flexural Modulus	2060	MPa	ASTM D 790
Izod Impact notched, 1/8 in	801	J/m	ASTM D 256
Izod Impact notched, 1/4 in	640	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	678	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, B	140	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	142	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12

**LEXAN™ Copolymer EXL9330 - Americas**

PC

Saudi Basic Industries Corporation (SABIC)

Glow Wire Ignition Temperature (GWIT)	<b>825</b>	°C	IEC 60695-2-13
GWIT - thickness tested (1)	<b>1</b>	mm	-
Glow Wire Ignition Temperature (GWIT)	<b>825</b>	°C	IEC 60695-2-13
GWIT - thickness tested (2)	<b>2</b>	mm	-
Glow Wire Ignition Temperature (GWIT)	<b>825</b>	°C	IEC 60695-2-13
GWIT - thickness tested (3)	<b>3</b>	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>134</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>120</b>	°C	ASTM D 648
Vicat Temperature	<b>142</b>	°C	ASTM D 1525

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 1MHz	<b>2.7</b>	-	IEC 62631-2-1
Dissipation factor, 1MHz	<b>85</b>	E-4	IEC 62631-2-1
Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
Comparative tracking index	<b>225</b>	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>17</b>	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	<b>0.0024</b>	-	ASTM D 150
Dissipation Factor, 1 MHz	<b>0.0085</b>	-	ASTM D 150
Dielectric Constant, 60 Hz	<b>2.95</b>	-	ASTM D 150
Dielectric Constant, 1 MHz	<b>2.9</b>	-	ASTM D 150

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>0.35</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.15</b>	%	Sim. to ISO 62
Density	<b>1190</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1180</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>255 - 315</b>	°C	-
Mold temperature	<b>70 - 95</b>	°C	-
Zone 1	<b>235 - 295</b>	°C	-
Zone 2	<b>245 - 305</b>	°C	-
Zone 3	<b>255 - 315</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Additives**

Flame retarding agent

**Regional Availability**

North America

**Special Characteristics**

Flame retardant