LEXAN™ Copolymer EXL9330P - Asia

PC — Saudi Basic Industries Corporation (SABIC)

Product Texts

Opaque PC-Siloxane copolymer with excellent processability. Non-chlorinated, non-brominated flame retardant product in most colors. UV-stabilized. UL rated f1/V-0/5VA.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**9**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
ASTM Data			
Melt Flow Index, MFI	**10**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**1.2**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
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/m²	ISO 179/1eU
Charpy impact strength, -30°C, 3mm	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	**75**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	**60**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**N**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	**70**	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	**55**	kJ/m²	ISO 180/1A
Ball indentation hardness	**90**	MPa	ISO 2039-1
ASTM Data			
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	**641**	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
ISO Data			
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	**5VA**	class	IEC 60695-11-20
Thickness tested	**3.0**	mm	-
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
GWFI - thickness tested (3)	**1**	mm	-
Glow Wire Ignition Temperature (GWIT)	**825**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**1**	mm	-
ASTM Data			
DTUL @ 66 psi	**134**	°C	ASTM D 648
DTUL @ 264 psi	**120**	°C	ASTM D 648
Vicat Temperature	**142**	°C	ASTM D 1525

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

Other properties	Value	Unit	Test Standard
Water absorption	**0.35**	%	Sim. to ISO 62
Humidity absorption	**0.15**	%	Sim. to ISO 62
Density	**1190**	kg/m³	ISO 1183
Density	**1180**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**295 - 315**	°C	-
Mold temperature	**70 - 95**	°C	-
Zone 1	**270 - 295**	°C	-
Zone 2	**280 - 305**	°C	-
Zone 3	**295 - 315**	°C	-
Screw speed	**40 - 70**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Additives
Flame retarding agent

Special Characteristics
Flame retardant

Regional Availability
Asia Pacific