LEXAN™ VISUALFX™ Resin FXE1414L - Americas

PC — Saudi Basic Industries Corporation (SABIC)

Product Texts

Opaque EXL, UV-Stabilized & light shielding capability (Wall thickness >0.8mm), for portable electronics device enclosure application. Only available in white, grey and limited pastel colors. Consult CIC or PM for color availability & limitation.

UL Yellow Card Link E207780-642296

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**10**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
ASTM Data			
Melt Flow Index, MFI	**11**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**1.2**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2000**	MPa	ISO 527
Yield stress	**52**	MPa	ISO 527
Yield strain	**5**	%	ISO 527
Stress at break	**47**	MPa	ISO 527
Strain at break	**50**	%	ISO 527
Flexural modulus	**2110**	MPa	ISO 178
Charpy notched impact strength, +23°C	**55**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	**56**	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	**46**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**2030**	MPa	ASTM D 638
Tensile Strength at Yield	**52**	MPa	ASTM D 638
Tensile Strength at Break	**54**	MPa	ASTM D 638
Elongation at Yield	**5**	%	ASTM D 638
Elongation at Break	**84**	%	ASTM D 638
Flexural Modulus	**2050**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**766**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**640**	J/m	ASTM D 256
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**118**	°C	ISO 75-1/-2
Vicat softening temperature, B	**138**	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	**146**	°C	ISO 306
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.4**	mm	-
ASTM Data			
DTUL @ 264 psi	**121**	°C	ASTM D 648
Vicat Temperature	**138**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	**0.17**	%	Sim. to ISO 62
Humidity absorption	**0.07**	%	Sim. to ISO 62
Density	**1280**	kg/m³	ISO 1183
Density	**1280**	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	-
Feed temperature	**60 - 80**	°C	-
Zone 1	**260 - 280**	°C	-
Zone 2	**280 - 305**	°C	-
Zone 3	**295 - 315**	°C	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Regional Availability
North America