LEXAN™ VISUALFX™ Resin FXD171R - Europe

PC — Saudi Basic Industries Corporation (SABIC)

Product Texts

Transparent/transluscent PC for light diffusion special effects. MFR of 25.0.

UL Yellow Card Link E45329-541350

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**26**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2350**	MPa	ISO 527
Yield stress	**63**	MPa	ISO 527
Yield strain	**6**	%	ISO 527
Stress at break	**50**	MPa	ISO 527
Strain at break	**50**	%	ISO 527
Flexural modulus	**2300**	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	**60**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	**12**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**N**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	**60**	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	**11**	kJ/m²	ISO 180/1A
Ball indentation hardness	**95**	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	**139**	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	**140**	°C	ISO 306
Burning behav. at thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested	**1.1**	mm	-

Other properties	Value	Unit	Test Standard
Water absorption	**0.35**	%	Sim. to ISO 62
Humidity absorption	**0.15**	%	Sim. to ISO 62
Density	**1200**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**280 - 300**	°C	-
Mold temperature	**80 - 100**	°C	-
Feed temperature	**60 - 80**	°C	-
Zone 1	**260 - 280**	°C	-
Zone 2	**270 - 290**	°C	-
Zone 3	**280 - 300**	°C	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Special Characteristics
Transparent

Regional Availability
Europe