

LEXAN™ VISUALFX™ Resin FXD941A

PC

Saudi Basic Industries Corporation (SABIC)

Product Texts

LEXAN FXD941A resin is based on Polycarbonate (PC) resin for Extrusion / Blow molding. Added features of this grade include: Diffusion effect and Brominated Flame Retardant. Color package may affect performance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	10.2	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2350	MPa	ASTM D 638
Tensile Strength at Yield	62	MPa	ASTM D 638
Tensile Strength at Break	68	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	120	%	ASTM D 638
Flexural Modulus	2340	MPa	ASTM D 790
Izod Impact notched, 1/8 in	800	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	3200	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	68	E-6/K	ASTM D 696
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	128	°C	ASTM D 648
Vicat Temperature	157	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	325	-	IEC 60112
ASTM Data			
Arc Resistance	30	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	265 - 280	°C	-
Mold temperature	60 - 100	°C	-
Zone 1	260 - 290	°C	-
Zone 2	260 - 290	°C	-
Zone 3	260 - 290	°C	-
Zone 4	260 - 290	°C	-
Zone 5	260 - 290	°C	-

Characteristics

Processing

Other Extrusion, Blow Molding

Special Characteristics

Flame retardant, Translucent

Features

Light Diffusing

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America