

Product Texts

ELCRES FXG9111T is PC-Siloxane copolymer in special "Diamond" appearance, which is part of the VISUALFX product family. This product features vivid and resplendent look with improved ductility and medium flow. FR V0 at 2mm. Color package may affect performance. Applications include housing of consumer electronics, cosmetic packaging, automotive interior decoration, etc.

UL Yellow Card Link: [E207780-104583633](https://www.ul.com/yellow-card/E207780-104583633)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	16.2	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.0053	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0058	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2170	MPa	ISO 527
Yield stress	57	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	45	MPa	ISO 527
Strain at break	70	%	ISO 527
Flexural modulus, 23°C	2200	MPa	ISO 178
Flexural strength	86.1	MPa	ISO 178
Charpy impact strength, +23°C	133	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	59	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	182	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	53	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2162	MPa	ASTM D 638
Tensile Strength at Yield	57	MPa	ASTM D 638
Tensile Strength at Break	44	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	55	%	ASTM D 638
Flexural Modulus	2220	MPa	ASTM D 790
Izod Impact notched, 1/8 in	718	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	500	J/m	ASTM D 256
Temperature	0	°C	-
Izod Impact unnotched, 1/8 in	2140	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	107	°C	ISO 75-1/-2
Vicat softening temperature, B	125	°C	ISO 306
Coeff. of linear therm. expansion, parallel	81	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	92	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	2.0	mm	-
Yellow Card available	yes	-	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	2	mm	-
Coefficient of Thermal Expansion, MD	76	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	85	E-6/K	ASTM D 696
DTUL @ 66 psi	119	°C	ASTM D 648
DTUL @ 264 psi	107	°C	ASTM D 648
Vicat Temperature	125	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	250 - 285	°C	-
Mold temperature	50 - 90	°C	-
Zone 1	250 - 285	°C	-
Zone 2	250 - 285	°C	-
Zone 3	250 - 285	°C	-
Nozzle temperature	250 - 285	°C	-

Characteristics

Processing

Injection Molding

Features

Ductile, Copolymer

Applications

Automotive, Electrical and Electronical, Packaging

Regional Availability

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