

Product Texts

LNP ELCRES FXD9111T is a PC-Siloxane copolymer resin with light diffusion special effects, which is part of the VISUALFX product family. Color package may affect performance. Added features of this grade include: Transparent/translucent, non-chlorinated, non-brominated flame retardant. FR V0 at 2mm.

UL Yellow Card Link: [E207780-104604292](https://www.ul.com/yellow-card/E207780-104604292)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	19.4	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.0063	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0069	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	51	MPa	ISO 527
Strain at break	71	%	ISO 527
Flexural modulus, 23°C	2080	MPa	ISO 178
Flexural strength	87.9	MPa	ISO 178
Charpy impact strength, +23°C	131	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	55	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	182	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	52	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2318	MPa	ASTM D 638
Tensile Strength at Yield	59	MPa	ASTM D 638
Tensile Strength at Break	57	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	97	%	ASTM D 638
Flexural Modulus	2230	MPa	ASTM D 790
Flexural Strength	94	MPa	ASTM D 790
Izod Impact notched, 1/8 in	643	J/m	ASTM D 256
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	106	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	118	°C	ISO 75-1/-2
Vicat softening temperature, B	124	°C	ISO 306
Coeff. of linear therm. expansion, parallel	82	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	86	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	79	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	109	°C	ASTM D 648
Vicat Temperature	125	°C	ASTM D 1525

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

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	59 - 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

Special Characteristics

Flame retardant, Halogen-free, Transparent, Translucent

Features

Light Diffusing, Copolymer

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

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