

Product Texts

LNP ELCRES FXM1838 is based on Polycarbonate (PC) copolymer resin with excellent flowability, UV stabilized in special metallic colors (color package may affect certain properties). It is targeted for applications like mobility exteriors, trims or other adjacent pain-free applications.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	40	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	39	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.0045	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0045	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2240	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Stress at break	59	MPa	ISO 527
Strain at break	90	%	ISO 527
Flexural modulus, 23°C	2230	MPa	ISO 178
Flexural strength	92	MPa	ISO 178
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2242	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	53	%	ASTM D 638
Elongation at Break	84	%	ASTM D 638
Flexural Modulus	2162	MPa	ASTM D 790
Flexural Strength	93	MPa	ASTM D 790
Izod Impact notched, 1/8 in	112	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	111	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	69	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	71	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 264 psi	108	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183
Density	1190	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	105 - 110	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	260 - 305	°C	-
Mold temperature	80 - 110	°C	-
Feed temperature	50 - 80	°C	-
Zone 1	240 - 280	°C	-
Zone 2	250 - 295	°C	-
Zone 3	260 - 305	°C	-
Nozzle temperature	255 - 300	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather

Features

Copolymer

Applications

Automotive, Electrical and Electronical

Regional Availability

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