

**Product Texts**

LNP ELCRES FST2732E resin is a UV stabilized, glass fiber reinforced polycarbonate Copolymer Resin in opaque colors for sheet extrusion and thermoforming processes. This non-chlorinated, non-brominated flame retardant resin is EN 45545 R6-HL2 compliant and an ideal candidate for train interior applications.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	4	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3850	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	3.6	%	ISO 527
Stress at break	42	MPa	ISO 527
Strain at break	7	%	ISO 527
Flexural modulus, 23°C	3800	MPa	ISO 178
Flexural strength	83	MPa	ISO 178
Charpy impact strength, +23°C	96	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	15	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	91	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	16	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	9	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>ASTM Data</b>			
Tensile Modulus	3900	MPa	ASTM D 638
Tensile Strength at Yield	50	MPa	ASTM D 638
Tensile Strength at Break	41	MPa	ASTM D 638
Elongation at Yield	3.8	%	ASTM D 638
Elongation at Break	6.8	%	ASTM D 638
Izod Impact notched, 1/8 in	143	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1200	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	118	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	126	°C	ISO 75-1/-2
Vicat softening temperature, B	124	°C	ISO 306
Coeff. of linear therm. expansion, parallel	36	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	74	E-6/K	ISO 11359-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	125	°C	ASTM D 648
DTUL @ 264 psi	116	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1290	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 105	°C	-
Pre-drying - Time	3 - 6	h	-
Processing humidity	≤0.05	%	-
Melt temperature	230 - 280	°C	-
Zone 1	210 - 260	°C	-
Zone 2	220 - 270	°C	-
Zone 3	230 - 280	°C	-

**Characteristics**

**Processing**

Sheet Extrusion, Thermoforming

**Features**

Low Smoke, Copolymer

**Special Characteristics**

Flame retardant, Halogen-free, U.V. stabilized or stable to weather, Opaque

**Regional Availability**

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