

Product Texts

LNP ELCRES SR8338 is a compound based on Polycarbonate/ABS/PMMA resin. Added feature of this material are: High Strength, Good Processability, Enhanced Scratch resistance.

UL Yellow Card [E207780-104558979](https://www.ul.com/yellowcard/E207780-104558979)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	17	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	18	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2410	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	52	MPa	ISO 527
Strain at break	48	%	ISO 527
Flexural modulus, 23°C	2320	MPa	ISO 178
Flexural strength	86	MPa	ISO 178
Charpy notched impact strength, +23°C	52	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	20	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	52	kJ/m ²	ISO 180/1A
Izod notched impact strength	21	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	2410	MPa	ASTM D 638
Tensile Strength at Yield	56	MPa	ASTM D 638
Tensile Strength at Break	52	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	48	%	ASTM D 638
Flexural Modulus	2320	MPa	ASTM D 790
Flexural Strength	86	MPa	ASTM D 790
Izod Impact notched, 1/8 in	560	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	310	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	108	°C	ISO 75-1/-2
Vicat softening temperature, B	130	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	70	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	70	E-6/K	ASTM D 696
DTUL @ 66 psi	121	°C	ASTM D 648
DTUL @ 264 psi	108	°C	ASTM D 648
Vicat Temperature	130	°C	ASTM D 1525

LNP™ ELCRES™ SR8338

(PC+ABS+PMMA)

Saudi Basic Industries Corporation (SABIC)

Other properties	Value	Unit	Test Standard
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1150	kg/m ³	ISO 1183
Density	1150	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 290	°C	-
Mold temperature	60 - 90	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	230 - 260	°C	-
Zone 2	250 - 290	°C	-
Zone 3	250 - 290	°C	-
Nozzle temperature	240 - 280	°C	-

Characteristics**Processing**

Injection Molding

Features

Scratch Resistant

Applications

Automotive, Electrical and Electronical

Regional Availability

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