LNP™ ELCRES™ SLX2291T

DESCRIPTION

LNP ELCRES SLX2291T is based on Polycarbonate (PC) copolymer resin. It is an injection moldable, weatherable product that offers enhanced UV stabilization. This high flow (25 MFR) resin provides good processability with added mold release. Targeted for potential paint elimination through a wide range of high gloss opaque colors. Also available in transparent or tints. SLX2291T is targeted for broad range of automotive, building and construction, electrical, consumer and electronics applications.

GENERAL INFORMATION	
Features	High Flow, IR Transparent, Transparent/Translucent, Dimensional stability, Weatherable/UV stable, High gloss, Piano black, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive EV Batteries, Heavy Truck, Automotive Interiors, Automotive Exteriors, Recreational/Specialty Vehicles
Building and Construction	Building Component
Consumer	Personal Recreation
Electrical and Electronics	Mobile Phone - Computer - Tablets, Lighting
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20260804

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 50 mm/min	63	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	65	MPa	ASTM D638
Tensile Strain, Yield			
Type I, 50 mm/min	6	%	ASTM D638
50 mm/min	6	%	ISO 527
Tensile Strain, Break			
Type I, 50 mm/min	>100	%	ASTM D638
50 mm/min	>100	%	ISO 527
Tensile Modulus, 50 mm/min	2315	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	105	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2400	MPa	ASTM D790
Tensile Stress, yield, 50 mm/min	64	MPa	ISO 527
Tensile Stress, break, 50 mm/min	61	MPa	ISO 527
Tensile Modulus, 1 mm/min	2350	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	98	MPa	ISO 178
Flexural Modulus, 2 mm/min	2410	MPa	ISO 178
IMPACT [1] [2]			
Izod impact, notched			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
23°C	350	J/m	ASTM D256
23°C, 2mm	665	J/m	ASTM D256
-30°C	107	J/m	ASTM D256
80*10*3 +23°C	56	kJ/m²	ISO 180/1A
80*10*3 -30°C	12	kJ/m²	ISO 180/1A
80*10*4 +23°C	12	kJ/m²	ISO 180/1A
Izod Impact, Unnotched			
80*10*3 +23°C	N.B.	kJ/m²	ISO 180/1U
Instrumented Dart Impact Total Energy, 23°C [3]	71	J	ASTM D3763
Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	65	kJ/m²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	10	kJ/m²	ISO 179/1eA
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	12	kJ/m²	ISO 179/1eA
THERMAL [1]			
Vicat Softening Temp, Rate B/50	138	°C	ASTM D1525
HDT, 1.82 MPa, 3.2mm, unannealed	123	°C	ASTM D648
CTE, -40°C to 40°C, flow	7.E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	7.E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	7.E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	138	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	120	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	133	°C	ISO 75/Bf
PHYSICAL [1]			
Density	1.2	g/cm³	ISO 1183
Specific Gravity	1.2	-	ASTM D792
Melt Flow Rate, 300°C/1.2 kgf	25	g/10 min	ASTM D1238
Water Absorption, (23°C/24hrs)	0.13	%	ASTM D570
Moisture Absorption, (23°C/50% RH/24 hrs)	0.06	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm [4]	0.5 – 0.8	%	SABIC method
Melt Volume Rate, MVR at 300°C/1.2 kg	23	cm³/10 min	ISO 1133
INJECTION MOLDING [5]			
Drying Temperature	120	°C	
Drying Time	2 – 4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	280 – 310	°C	
Nozzle Temperature	270 – 290	°C	
Front - Zone 3 Temperature	280 – 310	°C	
Middle - Zone 2 Temperature	270 – 290	°C	
Rear - Zone 1 Temperature	260 – 280	°C	
Hopper Temperature	60 – 80	°C	
Mold Temperature	80 – 110	°C	

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(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
(2) Impact property of this grade is strongly dependent on the thickness and molding condition. This grade shows enhanced ductility at lower thicknesses (below 3 mm).
(3) at 3.3 m/s dart speed
(4) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(5) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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