

LNPTTM ELCRESTTM SLX1462T

DESCRIPTION

LNP ELCRES SLX1462T is based on Polycarbonate (PC) copolymer resin. It is an injection moldable, weatherable product that offers enhanced UV stabilization, improved scratch resistance and chemical resistance performance. Targeted for potential paint elimination through a wide range of transparent or opaque colors. SLX1462T is targeted for a broad range of automotive, electrical, consumer, and electronics applications.

GENERAL INFORMATION

Features	Chemical Resistance, UV-C resistant, Scratch Resistance, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY

Automotive
Industrial

SUB INDUSTRY

Automotive Interiors
Electrical, Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, brk, Type I, 50 mm/min	65	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	66	%	ASTM D638
Tensile Modulus, 50 mm/min	2366	MPa	ASTM D638
Flexural Strength, 1.3 mm/min, 50 mm span	114	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2440	MPa	ASTM D790
Tensile Stress, break, 50 mm/min	70	MPa	ISO 527
Tensile Strain, break, 50 mm/min	84	%	ISO 527
Tensile Modulus, 1 mm/min	2366	MPa	ISO 527
Flexural Strength, 2 mm/min	105	MPa	ISO 178
Flexural Modulus, 2 mm/min	2436	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	688	J/m	ASTM D256
Izod Impact, unnotched, 23°C	2130	J/m	ASTM D4812
Izod Impact, notched 80°10'3 +23°C	19.1	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80°10'3 +23°C	141.7	kJ/m ²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80°10'4 sp=62mm	28	kJ/m ²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80°10'4 sp=62mm	102.5	kJ/m ²	ISO 179/1eU
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	126	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	114	°C	ASTM D648
HDT/Bf, 0.45 MPa Flatw 80°10'4 sp=64mm	126.1	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80°10'4 sp=64mm	113.6	°C	ISO 75/Af

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, flow	7.1E-05	1/°C	ASTM E83 1
CTE, -40°C to 40°C, xflow	7.2E-05	1/°C	ASTM E83 1
CTE, -40°C to 40°C, flow	7.0E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.0E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	140	°C	ASTM D1525
Vicat Softening Temp, Rate B/50	133	°C	ISO 306
PHYSICAL ⁽¹⁾			
Specific Gravity	1.31	-	ASTM D792
Density	1.31	g/cm ³	ISO 1183
Melt Flow Rate, 300°C/ 1.2 kgf	12	g/ 10 min	ASTM D1238
Melt Volume Rate, MVR at 300°C/ 1.2 kg	11	cm ³ / 10 min	ISO 1133
Mold Shrinkage, flow ⁽²⁾	0.59	%	SABIC method
Mold Shrinkage, xflow ⁽²⁾	0.55	%	SABIC method
INJECTION MOLDING ⁽³⁾			
Drying Temperature	100 – 110	°C	
Drying Time	4 – 6	Hrs	
Melt Temperature	280 – 320	°C	
Nozzle Temperature	280 – 320	°C	
Front - Zone 3 Temperature	280 – 320	°C	
Middle - Zone 2 Temperature	270 – 310	°C	
Rear - Zone 1 Temperature	260 – 300	°C	
Mold Temperature	50 – 110	°C	

(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) 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.

(3) 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.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.