

LNPTM ELCRESTM DMX1233

DESCRIPTION

LNP ELCRES DMX1233 is a UV stabilized improved flow Polycarbonate (PC) copolymer resin. Available in both transparent and custom colours, this grade is a good candidate for 5G related devices, anti-scratch covers etc. Added features of this grade include: Improved Scratch Resistance and Improved Dielectric Performance (lower Df).

GENERAL INFORMATION	
Features	Good Processability, Dielectrics, Amorphous, IR Transparent, Scratch Resistance, Transparent/Translucent, Weatherable/UV stable, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Interiors
Consumer	Personal Accessory
Electrical and Electronics	Electronic Components
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20241024

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL (1)			
Tensile Stress, brk, Type I, 50 mm/min	58.4	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	42.3	%	ASTM D638
Tensile Modulus, 50 mm/min	2505	MPa	ASTM D638
Flexural Strength, 1.3 mm/min, 50 mm span	108	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2340	MPa	ASTM D790
Tensile Stress, break, 50 mm/min	56.5	MPa	ISO 527
Tensile Strain, break, 50 mm/min	29.9	%	ISO 527
Tensile Modulus, 1 mm/min	2384	MPa	ISO 527
Flexural Strength, 2 mm/min	104	MPa	ISO 178
Flexural Modulus, 2 mm/min	2303	MPa	ISO 178
Pencil Hardness test, 1kgf	НВ	-	ASTM D3363
IMPACT (1)			
Izod Impact, notched, 23°C	45	J/m	ASTM D256
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
Izod Impact, notched 80*10*4 +23°C	4.37	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	3	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	NB	kJ/m²	ISO 179/1eU
THERMAL (1)			
HDT, 0.45 MPa, 3.2 mm, unannealed	134	°C	ASTM D648



PROPERTIES TYPICAL VALUES UNITS TEST METHODS HDT, 1.82 MPA, 3.2mm, unamnealed 121 °C ASTM D648 HDT, 18.2 MPA Flatw 80°10°4 sp-64mm 133 °C 107 /g/4 HDT, 18.1 MPA Flatw 80°10°4 sp-64mm 17° °C 10° /g/4 HOTC In 80°C, flow 7.55 S 1/°C 8011359-2 40°C to 80°C, slow 1,1°C 8010000 40°C stority 2,1°C 80100000 40°C stority 2,1°C 801000000 40°C stority 2,1°C <th></th> <th></th> <th></th> <th></th>				
HOT JR. J. SA Mar Flatuk 80°10'4 spe 84mm 13 "C 107 JAI NET JR. J. SA Mar Flatuk 80°10'4 spe 84mm 17 "C 107 JAI 107 J	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HOTAL IAS MP Flave SOT 14 9-84 mm 17 (20 mm) 17 (20 mm)<	HDT, 1.82 MPa, 3.2mm, unannealed	121	°C	ASTM D648
CT CT S01500°C, floor 10°C S0131359 2 40°C to 80°C, floor 8.165 10°C 8013159 2 Vica Softening Temp, Rate AJSO 139 C ASTM D1525 Vica Softening Temp, Rate AJSO 139 C 0.030 6 Relative Temp Index, Mech Wijmpact ⁽¹⁾ 80 C 0.030 6 Relative Temp Index, Mech Wijmpact ⁽²⁾ 80 C 0.046 8 Relative Temp Index, Mech Wijmpact ⁽²⁾ 80 C 0.074 8 Relative Temp Index, Mech Wijmpact ⁽³⁾ 180 C 0.074 8 Relative Temp Index, Mech Wijmpact ⁽³⁾ 180 X 1.04 6 Relative Temp Index, Mech Wijmpact ⁽³⁾ 180 ASIM D29 Met Box Son Of (1,2 kg 180 3.03 ASIM D29 Met Box Rate, 300°C/1,2 kg 2 3.03 ASIM D29 Met Box Rate, 10 kg 3.00 ASIM D29 Belective Constant, 1,6 kg 2 7.0 ASIM D29 Belective Constant, 1,9 kg 2 3.0 ASIM method Belective Constant, 2 kg	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	133	°C	ISO 75/Bf
40°C to 80°C, flow 75°C 10°C 80°T 1399 2 40°C to 80°C, flow 8158 10°C 80°T 1399 2 40°C to 80°C, flow 8158 10°C 80°T 1399 2 Vicat Softening Temp, Rate al 50° 139 c 00°C 30°G Relative Temp Index, Mech Wijmpact (*) 80 0°C 1174 6 10°C Relative Temp Index, Mech Wijmpact (*) 80 0°C 1174 6 10°C	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	117	°C	ISO 75/Af
40°C to 80°C, slow 8165 10°C NST 19132 Vicat Softening Temp, Rate AJ90 169 C ASTM 19132 Netat Softening Temp, Rate AJ90 10 C 03 06 Relative Temp Index, Bele BJ90 80 C U7468 Relative Temp Index, Mech will impact (**) 80 C U7468 Relative Temp Index, Mech will impact (**) 182 C U7468 Relative Temp Index, Mech will impact (**) 182 C U7468 Relative Temp Index, Mech will impact (**) 182 C U7468 Relative Temp Index, Mech will impact (**) 182 C U7468 Relative Temp Index, Mech will impact (**) 182 C SMID MST Relative Temp Index, Mech will impact (**) 40 C MSTM DST Well State (**) 40 SMID MST MSTM DST Well State (**) 40 MSTM DST MSTM DST Well From Asta (**) 40 ASK DST MSTM DST Well From Asta (**) 40 ASK DST MSK DST Ble	CTE			
Vical Softening Temp, Rate AJS0 164 °C ASM D1525 Vical Softening Temp, Rate AJS0 130 C 30 30 6 Relative Temp Index, Blec (Elo*) 80 °C U.7468 Relative Temp Index, Mech w/Impact (**) 80 °C U.7468 Relative Temp Index, Mech w/Impact (**) 80 °C U.7468 Pristract (**) *** *** V.** Pristract (**) *** X.** X.** <td>-40°C to 80°C, flow</td> <td>7.5E-5</td> <td>1/°C</td> <td>ISO 11359-2</td>	-40°C to 80°C, flow	7.5E-5	1/°C	ISO 11359-2
Victa Softening Temp, Rate 8 J90 193 Ce Common Montage 10 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	-40°C to 80°C, xflow	8.1E-5	1/°C	ISO 11359-2
Relative Temp Index, Rech Vimpact Index. Method primater (II)80"CU1 746 Relative Temp Index. Method Vimpact Index. Method Project Vision (II)Relative Temp Index. Method Vimpact Index. Method Project Vision (II)30U1 746 Relative Temp Index. Method Vimpact Index. Method Vision (II)Wistor Relative Temp Index. Method Vimpact Index. Method Vision (II)1827V3V3V3 Mort DaysWistor Gravity18281827V3V3 Mort DaysV3V3 Mort DaysWater Row Assorption, (I23°C) (24hrs)1829V3V3 Mort DaysV3 Mort DaysWild Shrinkage, flow Index. Method Vision (II)20V3V3 Mort DaysV3 Mort DaysMold Shrinkage, flow Index. Method (II)20V3V3 Mort DaysWolf Shrinkage, flow Index. Method (II)20V3V3 Mort DaysBelectric Constant, 1.0 ft/220V3V3 Mort DaysDissipation Factor, 1.1 Griz20V3V3 Mort DaysDissipation Factor, 1.9 Griz20V3V3 Mort DaysDissipation Factor, 1.0 Griz20V3V3 Mort DaysDissipation Factor, 1.0 Griz20V3V3 Mort DaysDissipation Factor, 1.0 Griz20V3V3V3 Mort DaysDissipation Factor, 1.0 Griz20V3V3V3 Mort DaysDissipation Factor, 1.0 Griz20V3V3V3V3 Mort DaysDissipation Factor, 1.0 Griz20V3V3V3V3Dissipation Factor, 1.0 Griz20V3V3V3V3 <t< td=""><td>Vicat Softening Temp, Rate A/50</td><td>146</td><td>°C</td><td>ASTM D1525</td></t<>	Vicat Softening Temp, Rate A/50	146	°C	ASTM D1525
Relative Temp Index, Mechany impact. Product Temp Index, Mechany Index,	Vicat Softening Temp, Rate B/50	139	°C	ISO 306
Relative Templace, Mechany inspace (**)PRISCALO**Priscal Convity182730 MAD POS (**)Specific Gravity182730 MAD POS (**)Mater Absorption (28**) Clashing20 MAD POS (**)30 MAD POS (**)Medic Rice, 1900** (28**) Clashing20 MAD POS (**)30 MAD POS (**)Mold Shrinkage, rifow (**)20 MAD POS (**)30 MAD POS (**)Mold Shrinkage, rifow (**)20 MAD POS (**)30 MAD POS (**)Electric Constant, 1.0 CHZ27 MAD POS (**)30 MAD POS (**)Dielectric Constant, 1.9 CHZ27 MAD POS (**)30 MAD POS (**)Dissipation Factor, 1.9 CHZ27 MAD POS (**)30 MAD POS (**)Dissipation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Dissipation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ20 MAD POS (**)30 MAD POS (**)Displation Factor, 5 CHZ30 M	Relative Temp Index, Elec ⁽²⁾	80	°C	UL 746B
Physical.** Processor Control of Cont	Relative Temp Index, Mech w/impact (2)	80	°C	UL 746B
Specific Gravity1.8172.9	Relative Temp Index, Mech w/o impact (2)	80	°C	UL 746B
Water Absorption, (2°C/24hrs)0.037%10ASTM D570Melt Flow Rate, 30°C/1.2 kgf2137.037.0ASTM D1238Mold Shrinkage, flow (1)0.723.03.0ABIC methodMold Shrinkage, xflow (1)2.723.0ASIC methodELECTRICAL (1)VV3.0ASIC methodDielectric Constant, 1.1 GHz2.762.0ASIC methodDielectric Constant, 1.9 GHz2.773.0ASIC methodDielectric Constant, 1.9 GHz2.773.0ASIC methodDielectric Constant, 5.0 Hz2.72ASIC methodDissipation Factor, 1.9 GHz2.72ASIC methodDissipation Factor, 1.9 GHz2.72ASIC methodDissipation Factor, 1.0 GHz2.72ASIC methodDissipation Factor, 1.0 GHz2.0ASIC methodDissipation Factor, 1.0 GHz2.0ASIC methodDissipation Factor, 1.0 GHz2.0ASIC methodDissipation Factor, 1.0 GHz2.73ASIC methodDissipation Factor, 2.0 GHz2.73ASIC methodDissipation Factor, 2.0 GHz2.73ASIC methodUse Multi-Constant, 2.0 GHzASIC methodASIC methodDissipation Factor, 2.0 GHz2.73ASIC methodDissipation Factor, 2.0 GHz2.73<	PHYSICAL (1)			
Melt Flow Rate, 300°C/1.2 kgf 21 glor many ASM D1238 Mold Shrinkage, flow ⁽³⁾ 0.73 3 SABC method Mold Shrinkage, xflow ⁽³⁾ 0.72 3 SABC method ELECTICAL ⁽¹⁾ Use can be presented as a proper to present a pres	Specific Gravity	1.1827	-	ASTM D792
Mold Shrinkage, flow (*)6.735.81C methodMold Shrinkage, xflow (*)7.28.05.81C methodELECTRICAL (*)*********************************	Water Absorption, (23°C/24hrs)	0.037	%	ASTM D570
Mold Shrinkage, xflow (*)72x8LC methodELECTRICAL (*)2.763.00x8LC methodDislectric Constant, 1.1 GHz0.00373.00x8LC methodDislectric Constant, 1.9 GHz2.773.00x8LC methodDislectric Constant, 1.9 GHz2.773.00x8LC methodDislectric Constant, 5. GHz2.773.00x8LC methodDislectric Constant, 5. GHz2.003.02x8LC methodDislectric Constant, 10 GHz2.87x8LC methodDislectric Constant, 10 GHz2.87x8LC methodDislectric Constant, 20 GHz2.00x8LC methodDislectric Constant, 20 GHz2.73x8LC methodDislectric Constant, 20 GHz2.73x8LC methodDislectric Constant, 20 GHz2.73x8LC methodDislectric Constant, 20 GHz2.73x8LC methodDislectric Constant, 20 GHz2.72x8LC methodDislectric Constant, 20 GHzx8LC methodx8LC methodDislect	Melt Flow Rate, 300°C/1.2 kgf	21	g/10 min	ASTM D1238
BECETRICA. I*** Dielectric Constant, 1.1 GHz 2.76 4.0 ABIC method Dissipation Factor, 1.1 GHz 0.0037 - ABIC method Dissipation Factor, 1.9 GHz 2.77 - ABIC method Dislectric Constant, 1.9 GHz 0.0035 - ABIC method Dislectric Constant, 5.0 GHz 2.77 - ABIC method Disleption Factor, 1.9 GHz 0.0032 - ABIC method Disleption Factor, 5.0 Hz 0.0032 - ABIC method Disleption Factor, 1.0 GHz 0.0033 - ABIC method Disleption Factor, 2.0 GHz 0.0034 - ABIC method Disleption Factor, 2.0 GHz 0.0034 - ABIC method Disleption Factor, 2.0 GHz 0.0034 - ABIC method Disleption Factor, 2.0 GHz - - ABIC method Disleption Factor, 2.0 GHz - - - - Disleption Factor, 2.0 GHz - - - - - - - - - - - - - - - - <td>Mold Shrinkage, flow (3)</td> <td>0.73</td> <td>%</td> <td>SABIC method</td>	Mold Shrinkage, flow (3)	0.73	%	SABIC method
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Dissipation Factor, 1.9 GHz.00035.00035.3004.30	Dissipation Factor, 1.1 GHz	0.0037	-	SABIC method
Dielectric Constant, 5 GHz 2.77 3 GBIC method Dissipation Factor, 5 GHz 0.0032 3 GBIC method Dielectric Constant, 10 GHz 2.87 3 GBIC method Dissipation Factor, 10 GHz 0.0033 3 GBIC method Dielectric Constant, 20 GHz 2.73 3 GBIC method Dissipation Factor, 20 GHz 0.0035 3 GBIC method BLAME CHARACTERISTICs (*) 2 GBIC method 3 GBIC method Ux ledow Card Link 207780-104568852 3 GBIC method 3 GBIC method Disping Temperature 100-120 mm 10-94 4 GBIC method Diving Temperature 100-120 ** ** 4 GBIC method Maximum Moisture Content 929-315 ** ** ** Melt Temperature 209-310 ** ** ** Nozale Temperature 209-315 ** ** ** Front - Zone 3 Temperature 209-315 ** ** ** Middle - Zone 2 Temperature 209-315 ** ** ** Middle - Zone 2 Temperature 209-310 ** ** **	Dielectric Constant, 1.9 GHz	2.77	-	SABIC method
Dissipation Factor, 5 GHz.00032.00032.3000	Dissipation Factor, 1.9 GHz	0.0035	-	SABIC method
Dielectric Constant, 10 GHz2.87SABIC methodDissipation Factor, 10 GHz0.0033.0SABIC methodDielectric Constant, 20 GHz2.73.0SABIC methodBisipation Factor, 20 GHz0.0035SABIC methodFLAME CHARACTERISTICS (*)UL Yellow Card Link£0207780-104568852UL Recognized, 94HB Flame Class Rating200mmU.94BID-120Drying Temperature110 − 120°CDrying Time3 − 4HrsMaximum Moisture Content.002%.Melt Temperature295 − 315°CTont-Zone 3 Temperature290 − 310°CFront-Zone 3 Temperature295 − 315°CMiddle-Zone 2 Temperature290 − 305°CMiddle-Zone 2 Temperature280 − 305°CRear-Zone 1 Temperature260 − 280°C	Dielectric Constant, 5 GHz	2.77	-	SABIC method
Dissipation Factor, 10 GHz0.0033	Dissipation Factor, 5 GHz	0.0032	-	SABIC method
Dielectric Constant, 20 GHz2.73ABIC methodDissipation Factor, 20 GHz0.0035- 3 ABIC methodFLAME CHARACTERISTICS **Ut Yellow Card LinkE207780-104568852- 3 ABIC methodUt Recognized, 94HB Flame Class Rating20.6mm0.94INJECTION MOLDING**Drying Temperature110 − 120°C- 3 ABIC methodPrying Time3 − 4Hrs- 4 ABIC methodMaximum Moisture Content90-2%- 4 ABIC methodNozzle Temperature295 − 315°C- 4 ABIC methodFront - Zone 3 Temperature295 − 315°C- 4 ABIC methodMiddle - Zone 2 Temperature200 − 305°C- 4 ABIC methodMiddle - Zone 2 Temperature200 − 280°C- 4 ABIC methodRecr - Zone 1 Temperature200 − 280°C- 4 ABIC method	Dielectric Constant, 10 GHz	2.87	-	SABIC method
Dissipation Factor, 20 GHz0.0035- Canage CHARACTERISTICS (2)UL Yellow Card LinkE207780-104568852- Canage CHARACTERISTICS (2)UL Recognized, 94HB Flame Class Rating20.6mmU.9 4Disping Temperature110 − 120°C- Canage CHARACTERISTICS (2)Drying Time3 − 4His- Canage CHARACTERISTICS (2)Maximum Moisture Content0.02%- Canage CHARACTERISTICS (2)Melt Temperature295 − 315°C- Canage CHARACTERISTICS (2)Mozele Temperature295 − 315°C- Canage CHARACTERISTICS (2)Middle - Zone 3 Temperature280 − 305°C- Canage CHARACTERISTICS (2)Middle - Zone 1 Temperature260 − 280°C- Canage CHARACTERISTICS (2)Ber - Zone 1 Temperature260 − 280°C- Canage CHARACTERISTICS (2)	Dissipation Factor, 10 GHz	0.0033	-	SABIC method
FLAME CHARACTERISTICS (2) UL Yellow Card Link	Dielectric Constant, 20 GHz	2.73	-	SABIC method
UL Yellow Card LinkE207780-104568852UL Recognized, 94HB Flame Class Rating20.6mmUL 94INJECTION MOLDING (4)Drying Temperature110 – 120°C-Drying Time3 – 4Hrs-Maximum Moisture Content0.02%-Melt Temperature295 – 315°C-Nozzle Temperature295 – 315°C-Front - Zone 3 Temperature295 – 315°C-Middle - Zone 2 Temperature280 – 305°C-Rear - Zone 1 Temperature260 – 280°C-	Dissipation Factor, 20 GHz	0.0035	-	SABIC method
Du Recognized, 94HB Flame Class Rating 20.6 nm mm ul 194 INIECTION MOLDING (4) Drying Temperature 110 - 120	FLAME CHARACTERISTICS (2)			
Dying Temperature 110 – 120 °C Dying Time 3 – 4 Hrs Maximum Moisture Content 295 – 315 °C Nozzle Temperature 290 – 310 °C Nozzle Temperature 290 – 310 °C Front - Zone 3 Temperature 295 – 315 °C Middle - Zone 2 Temperature 295 – 315 °C Middle - Zone 2 Temperature 296 – 305 °C Rear - Zone 1 Temperature 260 – 260 °C Rozzle Temperature 260 – 280 °C	UL Yellow Card Link	E207780-104568852	-	-
Drying Temperature 110-120 °C Drying Time 3-4 Hrs Maximum Moisture Content 0.02 % Melt Temperature 295-315 °C Nozzle Temperature 290-310 °C Front - Zone 3 Temperature 295-315 °C Middle - Zone 2 Temperature 280-305 °C Bear - Zone 1 Temperature 260-280 °C	UL Recognized, 94HB Flame Class Rating	≥0.6	mm	UL 94
Drying Temperature 110-120 °C Drying Time 3-4 Hrs Maximum Moisture Content 0.02 % Melt Temperature 295-315 °C Nozzle Temperature 290-310 °C Front - Zone 3 Temperature 295-315 °C Middle - Zone 2 Temperature 280-305 °C Bear - Zone 1 Temperature 260-280 °C	INJECTION MOLDING (4)			
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Maximum Moisture Content 0.02 % Melt Temperature 295 – 315 °C Nozzle Temperature 290 – 310 °C Front - Zone 3 Temperature 295 – 315 °C Middle - Zone 2 Temperature 280 – 305 °C Rear - Zone 1 Temperature 260 – 280 °C		3 – 4	Hrs	
Nozzle Temperature 290 – 310 °C Front - Zone 3 Temperature 295 – 315 °C Middle - Zone 2 Temperature 280 – 305 °C Rear - Zone 1 Temperature 260 – 280 °C		0.02	%	
Front - Zone 3 Temperature 295 – 315 °C Middle - Zone 2 Temperature 280 – 305 °C Rear - Zone 1 Temperature 260 – 280 °C	Melt Temperature	295 – 315	°C	
Front - Zone 3 Temperature 295 – 315 °C Middle - Zone 2 Temperature 280 – 305 °C Rear - Zone 1 Temperature 260 – 280 °C	Nozzle Temperature	290 – 310	°C	
Rear - Zone 1 Temperature 260 – 280 °C	Front - Zone 3 Temperature	295 – 315	°C	
•	Middle - Zone 2 Temperature	280 – 305	°C	
Mold Temperature 70 – 95 °C	Rear - Zone 1 Temperature	260 – 280	°C	
	Mold Temperature	70 – 95	°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) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.
- (3) 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.
- (4) 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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