

Product Texts

LNP ELCRES DMX1435D is a UV stabilized standard flow Polycarbonate (PC) copolymer resin with diffusion effect and improved scratch resistance. This grade is a good candidate for consumer electronics, mobility interiors and other adjacent applications, which need lower scratch and diffusive effects performance.

UL Yellow Card Link [F207780-104234328](https://www.ul.com/yellow-card-link/F207780-104234328)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	14	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	15.4	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	77	MPa	ISO 527
Yield strain	7	%	ISO 527
Stress at break	59	MPa	ISO 527
Strain at break	20	%	ISO 527
Flexural modulus	2600	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C, 3mm	46	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	2.2	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	2.5	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	2.2	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	2	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2700	MPa	ASTM D 638
Tensile Strength at Yield	77	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	7.5	%	ASTM D 638
Elongation at Break	20	%	ASTM D 638
Flexural Modulus	2500	MPa	ASTM D 790
Rockwell Hardness	M 90	-	ASTM D 785
Izod Impact notched, 1/8 in	30	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	30	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	115	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	129	°C	ISO 75-1/-2
Vicat softening temperature, B	136	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	138	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.6	mm	-
ASTM Data			
DTUL @ 66 psi	129	°C	ASTM D 648
DTUL @ 264 psi	115	°C	ASTM D 648
Vicat Temperature	138	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.27	%	Sim. to ISO 62
Humidity absorption	0.13	%	Sim. to ISO 62
Density	1180	kg/m ³	ISO 1183
Water Absorption, 24hr	0.04	%	ASTM D 570
Density	1180	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	295 - 315	°C	-
Mold temperature	70 - 95	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	260 - 280	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive