

Product Texts

LNP COLORCOMP DX98735H compound is based on Polycarbonate (PC) resin. Added features of this grade include: Healthcare.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.7	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2240	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	6.2	%	ISO 527
Stress at break	58	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2280	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Izod impact strength, +23°C, 4mm	212	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A

ASTM Data

Tensile Modulus	2330	MPa	ASTM D 638
Tensile Strength at Yield	63	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	6.3	%	ASTM D 638
Elongation at Break	66	%	ASTM D 638
Flexural Modulus	2460	MPa	ASTM D 790
Izod Impact notched, 1/8 in	101	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2520	J/m	ASTM D 256

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	126	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°C	ISO 75-1/-2

ASTM Data

Coefficient of Thermal Expansion, MD	68	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	68.9	E-6/K	ASTM D 696
DTUL @ 66 psi	139	°C	ASTM D 648
DTUL @ 264 psi	132	°C	ASTM D 648

Other properties

	Value	Unit	Test Standard
Humidity absorption	0.21	%	Sim. to ISO 62
Water Absorption, 24hr	0.14	%	ASTM D 570
Density	1210	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	300 - 315	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	305 - 315	°C	-
Zone 3	310 - 320	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific