

Product Texts

LNP THERMOCOMP DX11354X compound is based on Polycarbonate (PC) resin containing proprietary fillers. Added features of this grade include: Improved Plating Surface and Mechanical Performance suitable for Laser Direct Structuring (LDS) applications, Improved Impact, Colorable.

UL Yellow Card Link [F207780-101474809](https://www.ul.com/yellow-card-link/F207780-101474809)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	20	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2320	MPa	ISO 527
Yield stress	54	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	51	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2450	MPa	ISO 178
Izod notched impact strength, +23°C, 3mm	60	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2400	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	45	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	70	%	ASTM D 638
Flexural Modulus	2380	MPa	ASTM D 790
Izod Impact notched, 1/8 in	700	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	117	°C	ISO 75-1/-2
Vicat softening temperature, B	136	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
ASTM Data			
DTUL @ 264 psi	121	°C	ASTM D 648
Vicat Temperature	136	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.05	%	Sim. to ISO 62
Density	1280	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	80 - 140	°C	-

Feed temperature	40 - 60	°C	-
Zone 1	245 - 265	°C	-
Zone 2	260 - 280	°C	-
Zone 3	260 - 280	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive