

Product Texts

LNP THERMOCOMP DX14354X 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 Flow, Superior Impact, Colorable, Non-Brominated, Non-Chlorinated Flame Retardant.

UL Yellow Card Link [E207780-102180157](https://www.ul.com/yellow-card/E207780-102180157)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	21.6	kg	-
ASTM Data			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2460	MPa	ISO 527
Yield stress	54	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2560	MPa	ISO 178
Izod notched impact strength, +23°C, 3mm	60	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2500	MPa	ASTM D 638
Tensile Strength at Yield	54	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	70	%	ASTM D 638
Flexural Modulus	2500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	750	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	113	°C	ISO 75-1/-2
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
ASTM Data			
DTUL @ 264 psi	111	°C	ASTM D 648
Vicat Temperature	128	°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	1290	kg/m ³	ASTM D 792

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	250 - 270	°C	-
Mold temperature	40 - 100	°C	-

Feed temperature	40 - 60	°C	-
Zone 1	230 - 245	°C	-
Zone 2	240 - 255	°C	-
Zone 3	245 - 265	°C	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific