

Product Texts

LNP THERMOCOMP DX06313I compound is based on Polycarbonate (PC) resin containing 30% glass fiber. Added features of this grade include: Impact Modified, Thin-Wall Molding, Improved Flow.

UL Yellow Card Link [E207780-100120256](https://www.ul.com/yellow-card/E207780-100120256)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	5	kg	-
Density of melt	1270	kg/m ³	-
Thermal conductivity of melt	0.26	W/(m K)	-
Spec. heat capacity of melt	1600	J/(kg K)	-
Ejection temperature	123	°C	-
ASTM Data			
Melt Flow Index, MFI	30	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8300	MPa	ISO 527
Stress at break	115	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	7200	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	65	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C, 3mm	55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	17	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	15	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	54	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	18	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	14	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7900	MPa	ASTM D 638
Tensile Strength at Break	105	MPa	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	7500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	160	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	130	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	136	°C	ISO 75-1/-2
Vicat softening temperature, B	142	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	143	°C	ISO 306
Coeff. of linear therm. expansion, parallel	21	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	75	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 264 psi	136	°C	ASTM D 648
Vicat Temperature	142	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1420	kg/m ³	ISO 1183

Density	1420	kg/m ³	ASTM D 792
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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	310 - 330	°C	-
Mold temperature	80 - 115	°C	-
Zone 1	290 - 310	°C	-
Zone 2	300 - 320	°C	-
Zone 3	310 - 330	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

High impact or impact modified