

Product Texts

LNP THERMOCOMP DF006LXN compound is based on Polycarbonate (PC) resin containing 30% glass fiber. Added features of this grade include: Low Extractables.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Stress at break	114	MPa	ISO 527
Strain at break	7.5	%	ISO 527
Flexural modulus	7860	MPa	ISO 178
Flexural strength	185	MPa	ISO 178
Izod impact strength, +23°C, 4mm	56	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8630	MPa	ASTM D 638
Tensile Strength at Break	114	MPa	ASTM D 638
Elongation at Yield	2.7	%	ASTM D 638
Elongation at Break	3.2	%	ASTM D 638
Flexural Modulus	8230	MPa	ASTM D 790
Izod Impact notched, 1/8 in	144	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	914	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	141	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	145	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	144	°C	ASTM D 648
DTUL @ 264 psi	140	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.07	%	Sim. to ISO 62
Density	1450	kg/m ³	ISO 1183
Water Absorption, 24hr	0.07	%	ASTM D 570
Density	1450	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	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific