

Product Texts

LNP THERMOCOMP LF006EX1 compound is based on Polyetheretherketone (PEEK) resin containing 30% glass fiber. Added features of this grade include: Low warpage, Easy Molding.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11800	MPa	ISO 527
Stress at break	170	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus	10200	MPa	ISO 178
Flexural strength	225	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	46	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	10	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	47	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	12300	MPa	ASTM D 638
Tensile Strength at Break	170	MPa	ASTM D 638
Elongation at Break	2.3	%	ASTM D 638
Flexural Modulus	10100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	95	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	732	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	309	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	333	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	336	°C	ASTM D 648
DTUL @ 264 psi	321	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.037	%	ASTM D 570
Density	1540	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Mold temperature	175 - 190	°C	-
Zone 1	370 - 380	°C	-
Zone 2	380 - 400	°C	-
Zone 3	380 - 400	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific