

Product Texts

LNP THERMOCOMP LF002 compound is based on Polyetheretherketone (PEEK) resin containing 10% glass fiber.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.45	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.65	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6490	MPa	ISO 527
Yield stress	125	MPa	ISO 527
Yield strain	3.4	%	ISO 527
Stress at break	122	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus	5660	MPa	ISO 178
Izod impact strength, +23°C, 4mm	49	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	6080	MPa	ASTM D 638
Tensile Strength at Yield	120	MPa	ASTM D 638
Tensile Strength at Break	114	MPa	ASTM D 638
Elongation at Yield	3.3	%	ASTM D 638
Elongation at Break	4.2	%	ASTM D 638
Flexural Modulus	6010	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	860	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	171	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	285	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	34.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	43.9	E-6/K	ASTM D 696
DTUL @ 66 psi	326	°C	ASTM D 648
DTUL @ 264 psi	169	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1370	kg/m ³	ISO 1183
Water Absorption, 24hr	0.07	%	ASTM D 570
Density	1370	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