

Product Texts

LNP THERMOCOMP LF003 compound is based on Polyetheretherketone (PEEK) resin containing 15% glass fiber.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6930	MPa	ISO 527
Yield stress	125	MPa	ISO 527
Yield strain	2.3	%	ISO 527
Stress at break	125	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus	7000	MPa	ISO 178
Flexural strength	209	MPa	ISO 178
Izod impact strength, +23°C, 4mm	54	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7446	MPa	ASTM D 638
Tensile Strength at Yield	136	MPa	ASTM D 638
Tensile Strength at Break	136	MPa	ASTM D 638
Elongation at Yield	2.9	%	ASTM D 638
Elongation at Break	3.1	%	ASTM D 638
Flexural Modulus	6274	MPa	ASTM D 790
Flexural Strength	199	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	854	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	244	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	325	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	328	°C	ASTM D 648
DTUL @ 264 psi	258	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1390	kg/m ³	ISO 1183
Density	1390	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