

Product Texts

LNP THERMOCOMP LF004E compound is based on Polyetheretherketone (PEEK) resin containing 20% glass fiber. Added features of this grade include: Easy Molding.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7630	MPa	ISO 527
Yield stress	114	MPa	ISO 527
Yield strain	1.8	%	ISO 527
Stress at break	114	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus	7000	MPa	ISO 178
Flexural strength	207	MPa	ISO 178
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7580	MPa	ASTM D 638
Tensile Strength at Yield	126	MPa	ASTM D 638
Tensile Strength at Break	126	MPa	ASTM D 638
Elongation at Yield	2.2	%	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	6890	MPa	ASTM D 790
Flexural Strength	213	MPa	ASTM D 790
Izod Impact notched, 1/8 in	42	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	505	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	261	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	332	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	335	°C	ASTM D 648
DTUL @ 264 psi	286	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1420	kg/m ³	ISO 1183
Density	1420	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	380 - 390	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	350 - 360	°C	-
Zone 2	365 - 375	°C	-
Zone 3	380 - 395	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific