

Product Texts

LNP THERMOCOMP LF002EXD compound is based on Polyetheretherketone (PEEK) resin containing 10% glass fiber. Added features of this grade include: Custom Color, Easy Molding.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	50	cm ³ /10min	ISO 1133
Temperature	400	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8700	MPa	ISO 527
Stress at break	97	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	7700	MPa	ISO 178
Flexural strength	169	MPa	ISO 178
Charpy impact strength, +23°C	33	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	4	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	26	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8700	MPa	ASTM D 638
Tensile Strength at Break	99	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	7600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	378	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	39	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 0.45 MPa	300	°C	ISO 75-1/-2
Vicat softening temperature, B	300	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	300	°C	ISO 306
Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	41	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 264 psi	190	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water absorption	0.215	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1860	kg/m ³	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570

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	-
Feed temperature	40 - 60	°C	-
Zone 1	350 - 360	°C	-
Zone 2	365 - 375	°C	-
Zone 3	380 - 395	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific