

Product Texts

LNP THERMOCOMP JF004 compound is based on Polyethersulfone (PES) resin containing 20% glass fiber.

UL Yellow Card Link [E121562-101282575](https://www.ul.com/yellowcard/E121562-101282575)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7590	MPa	ISO 527
Stress at break	109	MPa	ISO 527
Strain at break	2.9	%	ISO 527
Flexural modulus	6410	MPa	ISO 178
Flexural strength	182	MPa	ISO 178
Izod impact strength, +23°C, 4mm	73	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7350	MPa	ASTM D 638
Tensile Strength at Break	114	MPa	ASTM D 638
Elongation at Break	2.8	%	ASTM D 638
Flexural Modulus	6690	MPa	ASTM D 790
Flexural Strength	186	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	413	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	205	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.5	mm	-
ASTM Data			
DTUL @ 264 psi	205	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.74	%	Sim. to ISO 62
Density	1510	kg/m ³	ISO 1183
Water Absorption, 24hr	0.4	%	ASTM D 570
Density	1510	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	≤0.05	%	-
Melt temperature	355 - 370	°C	-
Mold temperature	140 - 150	°C	-
Zone 1	345 - 355	°C	-
Zone 2	360 - 370	°C	-
Zone 3	370 - 380	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America