

**Product Texts**

LNP THERMOCOMP JF006 compound is based on Polyethersulfone (PES) resin containing 30% glass fiber.

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

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	9450	MPa	ISO 527
Stress at break	136	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus	10000	MPa	ISO 178
Flexural strength	207	MPa	ISO 178
Izod impact strength, +23°C, 4mm	40	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	10750	MPa	ASTM D 638
Tensile Strength at Break	142	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	9720	MPa	ASTM D 790
Flexural Strength	210	MPa	ASTM D 790
Izod Impact notched, 1/8 in	96	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	614	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	210	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.5	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	210	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.46	%	Sim. to ISO 62
Density	1580	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.34	%	ASTM D 570
Density	1580	kg/m <sup>3</sup>	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