

**Product Texts**

LNP THERMOCOMP JF003E compound is based on Polyethersulfone (PES) resin containing 15% glass fiber. Added features of this grade include: Easy Molding.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	5660	MPa	ISO 527
Stress at break	101	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus	5330	MPa	ISO 178
Flexural strength	174	MPa	ISO 178
Izod impact strength, +23°C, 4mm	33	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	5660	MPa	ASTM D 638
Tensile Strength at Break	107	MPa	ASTM D 638
Elongation at Break	2.8	%	ASTM D 638
Flexural Modulus	5680	MPa	ASTM D 790
Izod Impact notched, 1/8 in	43	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	500	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	211	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	218	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	41.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	47	E-6/K	ASTM D 696
DTUL @ 66 psi	218	°C	ASTM D 648
DTUL @ 264 psi	210	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.9	%	Sim. to ISO 62
Water Absorption, 24hr	0.45	%	ASTM D 570
Density	1490	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, Europe, Asia Pacific