

**Product Texts**

LNP THERMOCOMP OFM46 compound is based on Polyphenylene Sulfide (PPS) containing 50% glass fiber and minerals. Added features of this material include: high stiffness and strength, excellent dimensional stability and warpage control, good flame and chemical resistance, low coefficient of thermal expansion and moisture absorption.

UL Yellow Card Link: [E207780-104610218](https://www.ul.com/yellow-card/E207780-104610218)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	32	g/10min	ASTM D 1238
Temperature	315	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0025	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.004	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	15100	MPa	ISO 527
Stress at break	160	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus, 23°C	13300	MPa	ISO 178
Flexural strength	230	MPa	ISO 178
Charpy impact strength, +23°C	35	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	35	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	9.5	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	7.2	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-20	°C	-
<b>ASTM Data</b>			
Tensile Modulus	15000	MPa	ASTM D 638
Tensile Strength at Break	160	MPa	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Flexural Modulus	13200	MPa	ASTM D 790
Flexural Strength	230	MPa	ASTM D 790
Izod Impact notched, 1/8 in	90	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	512	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	265	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	278	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	15	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	30	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	15	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	34	E-6/K	ASTM D 696
DTUL @ 66 psi	278	°C	ASTM D 648
DTUL @ 264 psi	263	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1770	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>120 - 140</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Melt temperature	<b>310 - 330</b>	°C	-
Mold temperature	<b>135 - 160</b>	°C	-
Zone 1	<b>290 - 310</b>	°C	-
Zone 2	<b>300 - 320</b>	°C	-
Zone 3	<b>310 - 330</b>	°C	-
Nozzle temperature	<b>310 - 330</b>	°C	-
Screw speed	<b>50 - 100</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Chemical Resistance**

General Chemical Resistance

**Special Characteristics**

Flame retardant

**Applications**

Automotive

**Features**

Low Warpage, Thermal Stability

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America