

Product Texts

LNP THERMOCOMP OFC08V is a glass fiber reinforced Polyphenylene sulfide (PPS) compound. Added features include: high heat and chemical resistance, good warpage control and inherently flame-retardant, low flash and good processability, excellent LDS capability and plating performance, stable dielectric properties at various temperatures. Applications of this grade include 5G infrastructure and electronic components.

UL Yellow Card [E207780-104580497](https://www.ul.com/yellow-card/E207780-104580497)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	60	g/10min	ASTM D 1238
Temperature	315	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0025	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0045	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	13200	MPa	ISO 527
Stress at break	130	MPa	ISO 527
Strain at break	1.5	%	ISO 527
Flexural modulus, 23°C	12000	MPa	ISO 178
Flexural strength	180	MPa	ISO 178
Charpy impact strength, +23°C	29	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5.2	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	13000	MPa	ASTM D 638
Tensile Strength at Break	131	MPa	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Flexural Modulus	12000	MPa	ASTM D 790
Flexural Strength	183	MPa	ASTM D 790
Izod Impact notched, 1/8 in	55	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	420	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	255	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	272	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	19	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	45	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	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	19	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	46	E-6/K	ASTM D 696
DTUL @ 66 psi	272	°C	ASTM D 648
DTUL @ 264 psi	254	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water absorption	0.03	%	Sim. to ISO 62
Humidity absorption	0.01	%	Sim. to ISO 62
Water Absorption, 24hr	0.01	%	ASTM D 570
Density	1690	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 140	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	310 - 330	°C	-
Mold temperature	135 - 160	°C	-
Feed temperature	50 - 70	°C	-
Zone 1	290 - 310	°C	-
Zone 2	300 - 320	°C	-
Zone 3	310 - 320	°C	-
Nozzle temperature	310 - 330	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Chemical Resistance

General Chemical Resistance

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Applications

Automotive, Electrical and Electronical

Features

Low Warpage

Regional Availability

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