

Product Texts

LNP THERMOCOMP OMC0D compound is a mineral reinforced polyphenylene sulfide. Added feature of this material include: high dielectric constant, low dissipation factor, good flame and chemical resistance, low moisture absorption.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	50	g/10min	ASTM D 1238
Temperature	315	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.008	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9400	MPa	ISO 527
Stress at break	72	MPa	ISO 527
Strain at break	1.2	%	ISO 527
Flexural modulus, 23°C	9000	MPa	ISO 178
Flexural strength	100	MPa	ISO 178
Charpy impact strength, +23°C	20	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	3	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	16.5	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	4	kJ/m ²	ISO 180/1A
Izod notched impact strength	3.4	kJ/m ²	ISO 180/1A
Temperature	-20	°C	-
ASTM Data			
Tensile Modulus	9200	MPa	ASTM D 638
Tensile Strength at Break	73	MPa	ASTM D 638
Elongation at Break	1.2	%	ASTM D 638
Flexural Modulus	8800	MPa	ASTM D 790
Flexural Strength	92	MPa	ASTM D 790
Izod Impact notched, 1/8 in	38	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	280	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
Temp. of deflection under load, 0.45 MPa	216	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	34	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	34	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	42	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	42	E-6/K	ASTM D 696
DTUL @ 66 psi	220	°C	ASTM D 648
DTUL @ 264 psi	195	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	2320	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	-
Zone 1	290 - 310	°C	-
Zone 2	300 - 320	°C	-
Zone 3	310 - 330	°C	-
Nozzle temperature	310 - 330	°C	-
Screw speed	50 - 100	rpm	-

Back pressure

0.3 - 0.7

MPa

-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Chemical Resistance

General Chemical Resistance

Applications

Automotive, Electrical and Electronical

Regional Availability

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