

Product Texts

LNP THERMOCOMP OFC08XXP compound is a 40% glass fiber reinforced polyphenylene sulfide. Added feature of this material include: High stiffness/strength, High flow, Low warpage, Impact resistant, Chemical resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	64	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	15500	MPa	ISO 527
Stress at break	190	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus, 23°C	14000	MPa	ISO 178
Flexural strength	270	MPa	ISO 178
Charpy impact strength, +23°C	53	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	13	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	50	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	13	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	15400	MPa	ASTM D 638
Tensile Strength at Break	190	MPa	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	13800	MPa	ASTM D 790
Flexural Strength	270	MPa	ASTM D 790
Izod Impact notched, 1/8 in	128	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	650	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	267	°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	42	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	15	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	45	E-6/K	ASTM D 696
DTUL @ 66 psi	278	°C	ASTM D 648
DTUL @ 264 psi	266	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1660	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 - 330	°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

High impact or impact modified

Applications

Automotive

Features

Low Warpage

Regional Availability

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