

LNP™ THERMOCOMP™ Compound ZF0089

(PPE+PS)-GF40

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP ZF0089 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 40% glass fiber. Added features of this grade include: Exceptional Processing, Flame Retardant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.35	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.65	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12300	MPa	ISO 527
Strain at break	0.8	%	ISO 527
Flexural modulus	11900	MPa	ISO 178
Izod impact strength, +23°C, 4mm	19	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	13020	MPa	ASTM D 638
Tensile Strength at Break	101	MPa	ASTM D 638
Elongation at Break	1	%	ASTM D 638
Flexural Modulus	11800	MPa	ASTM D 790
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	332	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	105	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	112	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	31	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	54	E-6/K	ASTM D 696
DTUL @ 66 psi	110	°C	ASTM D 648
DTUL @ 264 psi	103	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.09	%	Sim. to ISO 62
Density	1510	kg/m ³	ISO 1183
Water Absorption, 24hr	0.07	%	ASTM D 570
Density	1520	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	300 - 305	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	275 - 290	°C	-
Zone 2	290 - 300	°C	-
Zone 3	300 - 310	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific