

**LNP™ THERMOCOMP™ Compound ZFM62P**

(PPE+PS)-(GF+MF)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP THERMOCOMP ZFM62P compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 10% glass fiber, 30% mineral. Added features of this grade include: Exceptional Processing.

UL Yellow Card Link [E121562-101283803](https://www.ulprospector.com/121562-101283803)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	8540	MPa	ISO 527
Stress at break	66	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus	8690	MPa	ISO 178
Flexural strength	120	MPa	ISO 178
Izod impact strength, +23°C, 4mm	12	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	8970	MPa	ASTM D 638
Tensile Strength at Break	75	MPa	ASTM D 638
Elongation at Break	1.4	%	ASTM D 638
Flexural Modulus	8740	MPa	ASTM D 790
Flexural Strength	124	MPa	ASTM D 790
Izod Impact notched, 1/8 in	31	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	192	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	139	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
<b>ASTM Data</b>			
DTUL @ 264 psi	137	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1420	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.08	%	ASTM D 570
Density	1420	kg/m <sup>3</sup>	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

**Regional Availability**

North America, Europe, Asia Pacific