

**Product Texts**

THERMOCOMP Z1C00 is an injection moldable compounds with ultra-low dielectric constant under wide frequencies, with other features including dimension stability, high HDT and low water uptake. Target industries are electronics and electrical including 5G applications.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	25	g/10min	ASTM D 1238
Temperature	320	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0075	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0085	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2390	MPa	ISO 527
Yield stress	70	MPa	ISO 527
Yield strain	5.1	%	ISO 527
Stress at break	64	MPa	ISO 527
Strain at break	7.1	%	ISO 527
Flexural modulus, 23°C	2370	MPa	ISO 178
Izod notched impact strength, +23°C	12	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	8	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>ASTM Data</b>			
Tensile Modulus	2350	MPa	ASTM D 638
Tensile Strength at Yield	69	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	5.2	%	ASTM D 638
Elongation at Break	32	%	ASTM D 638
Flexural Modulus	2250	MPa	ASTM D 790
Izod Impact notched, 1/8 in	120	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	80	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, B	191	°C	ISO 306
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	71	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	79	E-6/K	ASTM D 696
DTUL @ 264 psi	169	°C	ASTM D 648
Vicat Temperature	191	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.06	%	Sim. to ISO 62
Density	1060	kg/m <sup>3</sup>	ISO 1183
Density	1060	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	300 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	326 - 315	°C	-
Zone 2	275 - 320	°C	-
Zone 3	290 - 325	°C	-
Nozzle temperature	300 - 325	°C	-

**LNP™ THERMOCOMP™ Compound Z1C00**

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Screw speed	<b>20 - 100</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Additives**

Release agent

**Special Characteristics**

High impact or impact modified, Heat stabilized or stable to heat

**Features**

Low Odor, Low Warpage

**Applications**

Building Construction, IT / Business Machine, Electrical and Electronical

**Regional Availability**

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