

**Product Texts**

LNP THERMOCOMP ZKC04 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 20% minerals and impact modifier. Added features of this grade include: High Dielectric Constant (Dk), Extremely Low Dissipation Factor (Df), Good Ductility and Good Thermal Performance.

UL Yellow Card Link [E207780-102475263](https://www.ul.com/yellow-card-link/E207780-102475263)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	10	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2240	MPa	ISO 527
Yield stress	57	MPa	ISO 527
Yield strain	8.9	%	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	33	%	ISO 527
Flexural modulus	2210	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	55	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2290	MPa	ASTM D 638
Tensile Strength at Yield	58	MPa	ASTM D 638
Tensile Strength at Break	51	MPa	ASTM D 638
Elongation at Yield	9	%	ASTM D 638
Elongation at Break	34	%	ASTM D 638
Flexural Modulus	2080	MPa	ASTM D 790
Izod Impact notched, 1/8 in	720	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	155	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	175	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	174	°C	ASTM D 648
DTUL @ 264 psi	154	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1210	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	105	°C	-
Pre-drying - Time	3 - 5	h	-
Melt temperature	295 - 320	°C	-
Mold temperature	90 - 120	°C	-
Zone 1	280 - 300	°C	-
Zone 2	290 - 310	°C	-
Zone 3	300 - 320	°C	-
Screw speed	50 - 150	rpm	-
Back pressure	0.3 - 0.9	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Automotive