

Product Texts

LNP THERMOCOMP ZKC08 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 40% 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 [F207780-102468956](https://www.ul.com/yellow-card-link/F207780-102468956)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	7	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	9.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2080	MPa	ISO 527
Stress at break	42	MPa	ISO 527
Strain at break	9.3	%	ISO 527
Flexural modulus	2230	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	21	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2170	MPa	ASTM D 638
Tensile Strength at Yield	43	MPa	ASTM D 638
Tensile Strength at Break	36	MPa	ASTM D 638
Elongation at Yield	7.8	%	ASTM D 638
Elongation at Break	8.9	%	ASTM D 638
Flexural Modulus	2000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	205	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	149	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	174	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
ASTM Data			
DTUL @ 66 psi	173	°C	ASTM D 648
DTUL @ 264 psi	148	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1430	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	105	°C	-
Pre-drying - Time	3 - 5	h	-
Melt temperature	285 - 320	°C	-
Mold temperature	90 - 120	°C	-
Zone 1	275 - 300	°C	-
Zone 2	280 - 310	°C	-
Zone 3	285 - 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