

Product Texts

LNP THERMOCOMP ZKC06 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 30% 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 [E207780-102719345](https://www.ul.com/yellow-card-link/E207780-102719345)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2490	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	7.9	%	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	16	%	ISO 527
Flexural modulus	2620	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2530	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	8.7	%	ASTM D 638
Elongation at Break	14	%	ASTM D 638
Flexural Modulus	2350	MPa	ASTM D 790
Izod Impact notched, 1/8 in	280	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	155	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	173	°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	154	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1350	kg/m ³	ISO 1183
Density	1350	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	295 - 305	°C	-
Mold temperature	90	°C	-
Zone 1	280 - 285	°C	-
Zone 2	290 - 295	°C	-
Zone 3	300 - 305	°C	-

LNP™ THERMOCOMP™ Compound ZKC06

(PPE+PS)-MF30

Saudi Basic Industries Corporation (SABIC)

Screw speed	≥100	rpm	-
Back pressure	≥9	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive