

**Product Texts**

LNP THERMOCOMP ZKC0DXXD compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing minerals and impact modifier. Added features of this grade include: High Dielectric Constant (Dk), Extremely Low Dissipation Factor (Df), and Good Thermal Performance.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	4.3	cm <sup>3</sup> /10min	ISO 1133
Temperature	320	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	8.5	g/10min	ASTM D 1238
Temperature	320	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.008	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2380	MPa	ISO 527
Yield stress	46	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	43	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus, 23°C	2370	MPa	ISO 178
Flexural strength	82	MPa	ISO 178
Charpy impact strength, +23°C	36	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	4.9	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	4.2	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	30	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	6	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	6	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>ASTM Data</b>			
Tensile Modulus	2400	MPa	ASTM D 638
Tensile Strength	85	MPa	ASTM D 638
Tensile Strength at Yield	46	MPa	ASTM D 638
Tensile Strength at Break	44	MPa	ASTM D 638
Elongation at Yield	2.9	%	ASTM D 638
Elongation at Break	3.7	%	ASTM D 638
Flexural Modulus	2190	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	51	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	475	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	130	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	147	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	63	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	67	E-6/K	ASTM D 696
DTUL @ 66 psi	148	°C	ASTM D 648
DTUL @ 264 psi	130	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	2070	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>105 - 120</b>	°C	-
Pre-drying - Time	<b>3 - 5</b>	h	-
Melt temperature	<b>290 - 320</b>	°C	-
Mold temperature	<b>90 - 120</b>	°C	-
Zone 1	<b>270 - 300</b>	°C	-
Zone 2	<b>280 - 310</b>	°C	-
Zone 3	<b>290 - 320</b>	°C	-
Nozzle temperature	<b>290 - 320</b>	°C	-
Screw speed	<b>50 - 150</b>	rpm	-
Back pressure	<b>0.3 - 0.9</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Special Characteristics**

High impact or impact modified

**Regional Availability**

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

**Features**

Thermal Stability