

Product Texts

LNP THERMOCOMP ZKC0CXXD 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
ISO Data			
Melt volume-flow rate, MVR	5.8	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	9.6	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.007	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5000	MPa	ISO 527
Yield stress	72	MPa	ISO 527
Yield strain	2.8	%	ISO 527
Stress at break	69	MPa	ISO 527
Strain at break	3.1	%	ISO 527
Flexural modulus, 23°C	4800	MPa	ISO 178
Flexural strength	116	MPa	ISO 178
Charpy impact strength, +23°C	36.5	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3.1	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	35	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	6.4	kJ/m ²	ISO 180/1A
Izod notched impact strength	4.1	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	5000	MPa	ASTM D 638
Tensile Strength at Yield	72	MPa	ASTM D 638
Tensile Strength at Break	71	MPa	ASTM D 638
Elongation at Yield	2.7	%	ASTM D 638
Elongation at Break	3.1	%	ASTM D 638
Flexural Modulus	4690	MPa	ASTM D 790
Flexural Strength	127	MPa	ASTM D 790
Izod Impact notched, 1/8 in	57	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	46	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	478	J/m	ASTM D 256

Other properties	Value	Unit	Test Standard
Density	1900	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	290 - 320	°C	-
Mold temperature	90 - 120	°C	-
Zone 1	270 - 300	°C	-
Zone 2	280 - 310	°C	-
Zone 3	290 - 320	°C	-
Nozzle temperature	290 - 320	°C	-
Screw speed	50 - 150	rpm	-

Back pressure

0.3 - 0.9

MPa

-

Characteristics

Processing

Injection Molding

Special Characteristics

High impact or impact modified

Features

Thermal Stability

Applications

Automotive

Regional Availability

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