LNP™ THERMOCOMP™ COMPOUND ZX08005

ZX08005

DESCRIPTION

LNP THERMOCOMP ZX08005 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing unreinforced. Added features of this grade include: Improved Dielectric Properties.

GENERAL INFORMATION	
Features	Dielectrics, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyphenylene Ether + PS (PPE+PS)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Interiors
Consumer	Personal Accessory
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20240715

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yield, 5 mm/min	55	MPa	ISO 527
Tensile Strain, break, 5 mm/min	4.4	%	ISO 527
Tensile Modulus, 1 mm/min	3400	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	105	MPa	ISO 178
Flexural Modulus, 2 mm/min	4600	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched 80*10*4 +23°C	17	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	130	°C	ASTM D648
PHYSICAL [1]			
Density	2.07	g/cm³	ISO 1183
ELECTRICAL [1]			
Relative Permittivity, 100 MHz	6.58	-	IEC 60250
Relative Permittivity, 500 MHz	6.47	-	IEC 60250
Relative Permittivity, 1 GHz	6.16	-	IEC 60250
Dissipation Factor, 500 MHz	0.001	-	IEC 60250
Dissipation Factor, 1 GHz	0.001	-	IEC 60250
Dissipation Factor, 100 MHz	0.001	-	IEC 60250

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING [2]			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Melt Temperature	300 – 305	°C	
Front - Zone 3 Temperature	300 – 310	°C	
Middle - Zone 2 Temperature	290 – 300	°C	
Rear - Zone 1 Temperature	275 – 290	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

DISCLAIMER