LNP™ THERMOCOMP™ COMPOUND ZX06323

DESCRIPTION

LNP THERMOCOMP ZX06323 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing proprietary fillers. Added features of this grade include: High Dielectric Constant and Low Loss Tangent

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 20260319

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, brk, Type I, 5 mm/min	54	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	4.2	%	ASTM D638
Tensile Modulus, 5 mm/min	4140	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	102	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	102	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	3940	MPa	ASTM D790
Tensile Stress, break, 5 mm/min	54	MPa	ISO 527
Tensile Strain, break, 5 mm/min	4.7	%	ISO 527
Tensile Modulus, 1 mm/min	4080	MPa	ISO 527
Flexural Modulus, 2 mm/min	4390	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched, 23°C	294	J/m	ASTM D4812
Izod Impact, notched, 23°C	46	J/m	ASTM D256
Izod Impact, unnotched 80*10*4 +23°C	20	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	122	°C	ASTM D648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	122	°C	ISO 75/Af
PHYSICAL [1]			
Density	1.95	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.1	%	ASTM D570

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs [2]	0.64	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs [2]	0.56	%	ASTM D955
Density	1.95	g/cm³	ISO 1183
Melt Volume Rate, MVR at 300°C/5.0 kg	8	cm³/10 min	ISO 1133
ELECTRICAL [1]			
Dissipation Factor			
900MHz	0.003	-	ASTM D150
Relative Permittivity, 900MHz	6.4	-	ASTM D2520 - Mth B
FLAME CHARACTERISTICS [3]			
UL Yellow Card Link	E207780-101284064	-	-
UL Yellow Card Link 2	E207780-102991930	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING [4]			
Drying Temperature	105	°C	
Drying Time	3 – 5	Hrs	
Melt Temperature	295 – 305	°C	
Nozzle Temperature	290 – 295	°C	
Front - Zone 3 Temperature	300 – 305	°C	
Middle - Zone 2 Temperature	290 – 295	°C	
Rear - Zone 1 Temperature	280 – 285	°C	
Mold Temperature	90	°C	
Back Pressure	9	MPa	
Screw Speed	100	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) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(4) 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.

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