

LNPTM THERMOCOMPTM COMPOUND ZX06323

DESCRIPTION

This material is mineral filled PPO grade with high dielectric constant and low loss tangent

TYPICAL PROPERTY VALUES

Revision 20191217

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	54	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.2	%	ASTM D 638
Tensile Modulus, 5 mm/min	4140	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	102	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	102	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3940	MPa	ASTM D 790
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			
Izod Impact, unnotched, 23°C	294	J/m	ASTM D 4812
Izod Impact, notched, 23°C	46	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	20	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	122	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	122	°C	ISO 75/Af
PHYSICAL			
Density	1.95	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.64	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.56	%	ASTM D 955
Density	1.95	g/cm ³	ISO 1183
Melt Volume Rate, MVR at 300°C/5.0 kg	8	cm ³ /10 min	ISO 1133
ELECTRICAL			
Dissipation Factor, 900MHz	0.003	-	ASTM D 150
Relative Permittivity, 900MHz	6.4	-	ASTM D 2520 - Mth B
FLAME CHARACTERISTICS ⁽¹⁾			
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			
Drying Temperature	105	°C	
Drying Time	3 – 5	hrs	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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) 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.

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