LNP™ THERMOCOMP™ COMPOUND FX10009

FX10009

DESCRIPTION

Compound based on Polyethylene resin, containing Mineral.
Added features include: Improved Dielectric Properties.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	20	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	2550	MPa	ISO 527
Flexural Stress, break, 2 mm/min	15	MPa	ISO 178
Flexural Modulus, 2 mm/min	2750	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	5.5	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3.5	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	1.5E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.3E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	100	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	60	°C	ISO 75/Af
PHYSICAL			
Melt Volume Rate, MVR at 190°C/10.0 kg	7.5	cm³/10 min	ISO 1133
Melt Volume Rate, MVR at 220°C/10.0 kg	12.5	cm³/10 min	ISO 1133
Mold Shrinkage, flow	1.5 – 2.0	%	SABIC method
Density	2.50	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.08	%	ISO 62-1
ELECTRICAL			
Dissipation Factor, 1 GHz	0.008	-	IEC 60250
Dissipation Factor, 500 MHz	0.008	-	IEC 60250
Dissipation Factor, 100 MHz	0.009	-	IEC 60250
Relative Permittivity, 1 GHz	13.1	-	IEC 60250
Relative Permittivity, 500 MHz	13.4	-	IEC 60250
Relative Permittivity, 100 MHz	13.6	-	IEC 60250
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.03	%	
Melt Temperature	210 – 215	°C	
Front - Zone 3 Temperature	205 – 215	°C	
Middle - Zone 2 Temperature	200 – 210	°C	
Rear - Zone 1 Temperature	190 – 200	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	15 – 55	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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