

LNP™ THERMOCOMP™ FX10009 compound

Polyethylene

SABIC Innovative Plastics Europe

Message:

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

Also known as: LNP* THERMOCOMP* Compound FX10009

Product reorder name: FX10009

General Information			
Filler / Reinforcement	Mineral		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	2.48	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.5 to 2.5	%	Internal Method
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2540	MPa	ISO 527-2/1
Tensile Stress (Break)	25.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.6	%	ISO 527-2/5
Flexural Modulus ¹	2750	MPa	ISO 178
Flexural Stress	35.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	15	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	96.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	60.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.2E-4	cm/cm/°C	
Transverse : 23 to 60°C	9.4E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	188 to 199	°C	
Middle Temperature	199 to 210	°C	
Front Temperature	204 to 216	°C	
Processing (Melt) Temp	210 to 216	°C	
Mold Temperature	15.6 to 54.4	°C	

Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm
NOTE		
1.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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