

LNP™ THERMOCOMP™ DZ004 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP DZ004 is a compound based on Polycarbonate resin containing Glass Fiber. Also known as THERMOCOMP DF-1004 M

Also known as: LNP* THERMOCOMP* Compound DF-1004 M

Product reorder name: DZ004

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Molding Shrinkage - Flow (24 hr)	0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3700	MPa	ASTM D638
Tensile Strength (Break)	60.7	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	3510	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Unnotched Izod Impact (23°C)	1100	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	136	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.1E+13 - 3.9E+13	ohms	ASTM D257
Volume Resistivity	4.0E+16 - 5.9E+16	ohms · cm	ASTM D257
Dielectric Strength (1.60 mm, in Air)	24	kV/mm	ASTM D149
Dissipation Factor (1 MHz)	8.3E-3		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 - 304	°C	
Middle Temperature	310 - 321	°C	
Front Temperature	321 - 332	°C	
Processing (Melt) Temp	304 - 327	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	

Screw Speed	30 - 60	rpm
NOTE		
1.	50 mm/min	

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Recommended distributors for this material

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