

LNP™ THERMOCOMP™ Noryl_FM3020

compound

Polyphenylene Ether + PS

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP NORYL_FM3020 compound is GR/MR 30%, high modulus structural foam. 10% weight reduction, 0.250" wall thickness.

General Information			
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight		
Features	Foamable		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.19	g/cm ³	
--	1.32	g/cm ³	
Molding Shrinkage			Internal Method
Flow : 6.40 mm	0.25	%	
Across Flow : 3.20 mm	0.30	%	
Water Absorption (24 hr)	0.080	%	ASTM D570
Foam - Physical ²	10	%	Internal Method
Foam - Mechanical ³	10	%	Internal Method
Foam - Impact ⁴	10	%	Internal Method
Foam - Thermal ⁵	10	%	Internal Method
Foam - Electrical ⁶	20	%	Internal Method
Foam - Flame Class Minimum Density	1.120	g/cm ³	Internal Method
Weight Reduction	10	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 6.35 mm)	72.4	MPa	ASTM D638
Tensile Elongation (Yield, 6.35 mm)	2.0	%	ASTM D638
Flexural Modulus (6.40 mm)	6550	MPa	ASTM D790
Flexural Strength (Yield, 6.40 mm)	105	MPa	ASTM D790
Poisson's Ratio	0.38		ASTM D638
Coefficient of Friction			ASTM D1894
vs. Itself - Static	0.54		
vs. Steel - Static	0.51		

Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	100	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	118	°C	
1.8 MPa, Unannealed, 6.40 mm	110	°C	
CLTE			ASTM E831
Flow : -40 to 95°C	2.3E-5	cm/cm/°C	
Transverse : -40 to 95°C	3.4E-5	cm/cm/°C	
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	ohms	ASTM D257
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Arc Resistance ⁷	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 4		UL 746
High Amp Arc Ignition (HAI)	PLC 4		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 4		UL 746
Hot-wire Ignition (HWI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
	V-1		
Flame Rating (2.90 mm)	5VA		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	2.0 to 3.0	hr	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	240 to 260	°C	
Middle Temperature	260 to 280	°C	
Front Temperature	280 to 300	°C	
Nozzle Temperature	270 to 290	°C	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	80.0 to 100	°C	
NOTE			
1.	Foam molded		
2.	6.4 mm wt reduction		
3.	6.4 mm wt reduction		
4.	6.4 mm wt reduction		

5.	6.4 mm wt reduction
6.	6.4 mm wt reduction
7.	Tungsten Electrode

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