

LNP™ THERMOCOMP™ ZFM62P compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP THERMOCOMP ZFM62P is a compound based on PPO resin containing 10% Glass Fiber, 30% Mical. Added feature of this material is: Exceptional Processing.

Also known as: LNP* THERMOCOMP* Compound ZFM-3362 EP

Product reorder name: ZFM62P

General Information			
UL YellowCard	E121562-101283803		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight Mica,30% Filler by Weight		
Features	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.45	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.080	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8980	MPa	ASTM D638
--	8550	MPa	ISO 527-2/1
Tensile Strength			
Break	76.0	MPa	ASTM D638
Break	66.2	MPa	ISO 527-2
Tensile Elongation			
Break	1.4	%	ASTM D638
Break	1.1	%	ISO 527-2
Flexural Modulus			
--	8740	MPa	ASTM D790
--	8690	MPa	ISO 178
Flexural Strength			
--	124	MPa	ASTM D790
--	120	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C ²	3.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	190	J/m	ASTM D4812
23°C ³	13	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.13	J	ASTM D3763
--	1.41	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	139	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.5E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 to 288	°C	
Middle Temperature	288 to 299	°C	
Front Temperature	299 to 310	°C	
Processing (Melt) Temp	299 to 304	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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