LNP™ THERMOCOMP™ Compound ZFM62P

ZFM-3362 EP

DESCRIPTION

LNP THERMOCOMP ZFM62P compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 10% glass fiber, 30% mineral. Added features of this grade include: Exceptional Processing.

GENERAL INFORMATION	
Features	High Flow, Low Warpage, High stiffness/Strength, No PFAS intentionally added
Fillers	Mineral, Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polyphenylene Ether + PS (PPE+PS)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break	75	MPa	ASTM D638
Tensile Strain, break	1.4	%	ASTM D638
Tensile Modulus, 50 mm/min	8970	MPa	ASTM D638
Flexural Stress	124	MPa	ASTM D790
Flexural Modulus	8740	MPa	ASTM D790
Tensile Stress, break	66	MPa	ISO 527
Tensile Strain, break	1	%	ISO 527
Tensile Modulus, 1 mm/min	8540	MPa	ISO 527
Flexural Stress	120	MPa	ISO 178
Flexural Modulus	8690	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched, 23°C	192	J/m	ASTM D4812
Izod Impact, notched, 23°C	31	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	7	J	ASTM D3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	12	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D648
CTE, -40°C to 40°C, flow	3.52E-05	1/°C	ASTM E831

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, xflow	3.74E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	3.53E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.74E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	139	°C	ISO 75/Af
PHYSICAL [1]			
Density	1.42	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.08	%	ASTM D570
Mold Shrinkage, flow, 24 hrs [2]	0.5	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs [2]	0.5	%	ASTM D955
Mold Shrinkage, flow, 24 hrs [2]	0.45	%	ISO 294
Mold Shrinkage, xflow, 24 hrs [2]	0.5	%	ISO 294
Density	1.42	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62
FLAME CHARACTERISTICS [3]			
UL Yellow Card Link	E121562-101283803	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING [4]			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Melt Temperature	300 – 305	°C	
Front - Zone 3 Temperature	300 – 310	°C	
Middle - Zone 2 Temperature	290 – 300	°C	
Rear - Zone 1 Temperature	275 – 290	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

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