LNP™ THERMOCOMP™ Compound WF0069

WF-1006 FR-S

DESCRIPTION

LNP THERMOCOMP WF0069 compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass fiber. Added features of this grade include: Flame Retardant.

GENERAL INFORMATION	
Features	Flame Retardant, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polybutylene Terephthalate (PBT)
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 20230607

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Flexural Strength, 1.3 mm/min, 50 mm span	165	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	9650	MPa	ASTM D790
Tensile Stress, brk, Type I, 5 mm/min	121	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D638
IMPACT [1]			
Izod Impact, unnotched, 23°C	370	J/m	ASTM D4812
Izod Impact, notched, 23°C	64	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	204	°C	ASTM D648
PHYSICAL [1]			
Density	1.68	g/cm³	ASTM D792
Mold Shrinkage, flow, 24 hrs [2]	0.4 – 0.5	%	ASTM D955
Water Absorption, (23°C/24hrs)	0.06	%	ASTM D570
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-101358191	-	-
UL Recognized, 94V-0 Flame Class Rating	0.73	mm	UL 94
INJECTION MOLDING [3]			
Drying Temperature	110 – 120	°C	
Drying Time	2 – 4	Hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Maximum Moisture Content	0.02	%	
Melt Temperature	245 – 260	°C	
Nozzle Temperature	230 – 255	°C	
Front - Zone 3 Temperature	240 – 260	°C	
Middle - Zone 2 Temperature	235 – 250	°C	
Rear - Zone 1 Temperature	230 – 240	°C	
Hopper Temperature	40 – 60	°C	
Mold Temperature	40 – 100	°C	

(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) 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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