LNP™ THERMOCOMP™ Compound OF006XA

OF-1006
REGION AMERICAS

DESCRIPTION

LNP THERMOCOMP OF006XA compound is based on branched Polyphenylene Sulfide (PPS) resin containing 30% glass fiber.

GENERAL INFORMATION	
Applications	Electronic Components, Wiring Devices
Features	High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Processing Techniques	Injection Molding
Regional Availability	Europe, Americas

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 20261103

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break	129	MPa	ASTM D638
Tensile Strain, break	1.3	%	ASTM D638
Tensile Modulus, 50 mm/min	12730	MPa	ASTM D638
Flexural Stress	193	MPa	ASTM D790
Flexural Modulus	11250	MPa	ASTM D790
Tensile Stress, break	129	MPa	ISO 527
Tensile Strain, break	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	12480	MPa	ISO 527
Flexural Stress	220	MPa	ISO 178
Flexural Modulus	11880	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched, 23°C	405	J/m	ASTM D4812
Izod Impact, notched, 23°C	69	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	8	J	ASTM D3763
Multiaxial Impact	2	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	31	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	267	°C	ASTM D648

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, flow	2.34E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	4.5E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	2.41E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.57E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	263	°C	ISO 75/Af
PHYSICAL (1)			
Density	1.58	g/cm³	ASTM D792
Mold Shrinkage, flow, 24 hrs (2)	0.1 – 0.3	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs (2)	0.4 – 0.7	%	ASTM D955
Mold Shrinkage, flow, 24 hrs (2)	0.13 – 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (2)	0.4 – 0.7	%	ISO 294
Density	1.58	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.06	%	ISO 62
FLAMMABILITY PROPERTIES			
UL Yellow Card Link	E121562-11097953	-	
UL Yellow Card Link 2	E121562-11097954	-	
INJECTION MOLDING (3)			
Drying Temperature	120 – 150	°C	
Drying Time	4	Hrs	
Melt Temperature	315 – 340	°C	
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°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) 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.

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