

LNPTM THERMOCOMPTM COMPOUND WB006

WB-1006 REGION AMERICAS

DESCRIPTION

LNP THERMOCOMP WB006 compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass bead.

GENERAL INFORMATION	
Features	Low Warpage, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Bead
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

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL⁽¹⁾ Tensile Stress, brk, Type I, 5 mm/min 54 MPa ASTM D638 Tensile Strain, yld, Type I, 5 mm/min 42 % ASTM D638 Tensile Strain, brk, Type I, 5 mm/min 5.6 % ASTM D638 Tensile Modulus, 50 mm/min 4070 MPa ASTM D638 Flexural Stress, brk, 1.3 mm/min, 50 mm span 78 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 3980 MPa ASTM D790 Tensile Stress, break, 5 mm/min 54 MPa ISO 527 Tensile Strain, yield, 5 mm/min 3.7 % ISO 527 Tensile Strain, break, 5 mm/min 4.4 % ISO 527 Tensile Modulus, 1 mm/min 4200 MPa ISO 527 Flexural Modulus, 2 mm/min 3600 MPa ISO 178 IMPACT (1) 172 Izod Impact, unnotched, 23°C J/m ASTM D4812 Izod Impact, notched, 23°C 22 ASTM D256 J/m Instrumented Dart Impact Total Energy, 23°C 4 ASTM D3763 Izod Impact, unnotched 80*10*4 +23°C 11 ISO 180/1U kJ/m² Izod Impact, notched 80*10*4 +23°C 2 kJ/m² ISO 180/1A THERMAL (1) HDT, 0.45 MPa, 3.2 mm, unannealed 186 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 106 °C ASTM D648 CHEMISTRY THAT MATTERS © 2024 Copyright by SABIC. All rights reserved

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -30°C to 30°C, flow	7.4E-05	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	7.1E-05	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	170	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	93	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Specific Gravity	1.57	-	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.05	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	1 – 4	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1 – 4	%	ASTM D955
Density	1.54	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.06	%	ISO 62
INJECTION MOLDING ⁽³⁾			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	240 – 265	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Mold Temperature	80 – 100	°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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