LNP™ THERMOCOMP™ COMPOUND WC006

WC-1006
REGION EUROPE

DESCRIPTION

LNP THERMOCOMP WC006 compound is based on Polybutylene Terephthalate (PBT) resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

GENERAL INFORMATION	
Features	Electrically Conductive, Carbon fiber filled, High stiffness/Strength, No PFAS intentionally added
Fillers	Carbon Fiber
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 20260204

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break, 5 mm/min	151	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1 – 2	%	ISO 527
Flexural Stress, break, 2 mm/min	214	MPa	ISO 178
Flexural Modulus, 2 mm/min	16100	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
PHYSICAL [1]			
Mold Shrinkage on Tensile Bar, flow [2]	0.1 – 0.2	%	SABIC method
Density	1.43	g/cm³	ISO 1183
ELECTRICAL [1]			
Surface Resistivity	1.E+01 – 1.E+03	Ω	ASTM D257

(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.

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MORE INFORMATION

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

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