

LNP* Thermocomp* Compound WH0450E

Americas: COMMERCIAL

Also known as: WH0450E

Product Reorder Name: WH0450E

LNP* Thermocomp* WH0450E is a compound based on Polybutylene Terephthalate resin containing High Specific Gravity Filler. Added features of this material include: High Specific Gravity.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	30	MPa	ASTM D 638
Tensile Stress, break	28	MPa	ASTM D 638
Tensile Strain, yield	0.3	%	ASTM D 638
Tensile Strain, break	0.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	14390	MPa	ASTM D 638
Flexural Stress	55	MPa	ASTM D 790
Flexural Modulus	11700	MPa	ASTM D 790
Tensile Stress, yield	29	MPa	ISO 527
Tensile Stress, break	33	MPa	ISO 527
Tensile Strain, yield	0.3	%	ISO 527
Tensile Strain, break	0.4	%	ISO 527
Tensile Modulus, 1 mm/min	9640	MPa	ISO 527
Flexural Stress	54	MPa	ISO 178
Flexural Modulus	11480	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	108	J/m	ASTM D 4812
Izod Impact, notched, 23°C	32	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	4	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	182	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	173	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	4.5	g/cm ³	ASTM D 792

Source GMD, last updated:04/23/2007

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.

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