

LNPTTM THERMOCOMPTM COMPOUND WX96784

DESCRIPTION

LNP THERMOCOMP WX96784 compound is based on Polybutylene Terephthalate (PBT) resin containing 25% mineral. Added features of this grade include: Improved CTI, Flame Retardant, Impact Modified.

GENERAL INFORMATION	
Features	Flame Retardant, High stiffness/Strength, Impact resistant
Fillers	Mineral
Polymer Types	Polybutylene Terephthalate (PBT)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Under the Hood
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 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, brk, Type I, 5 mm/min	52	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	10 – 15	%	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	3103	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	97	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	117.5	J/m	ASTM D256
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	77	°C	ASTM D648
PHYSICAL ⁽¹⁾			
Water Absorption, (23°C/24hrs)	.05	%	ASTM D570
Specific Gravity	1.5	-	ASTM D792
Mold Shrinkage, 48 hrs @ 23°C, flow ⁽²⁾	1.10	%	SABIC method
INJECTION MOLDING ⁽³⁾			
Melt Temperature	248 – 276	°C	
Mold Temperature	80 – 93	°C	
Screw Speed	40 – 80	rpm	
Back Pressure	.334	MPa	

- (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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