

LNPT[™] THERMOCOMP[™] COMPOUND MB006HS

MB-1006 HS HC

DESCRIPTION

LNP THERMOCOMP MB006HS compound is based on Polypropylene (PP) resin containing 30% glass bead. Added features of this grade include: Heat Stabilized, Healthcare.

GENERAL INFORMATION	
Features	Heat Stabilized, Low Warpage, Healthcare/Formula lock, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Bead
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding
INDUSTRY	SUB INDUSTRY
Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, break	28	MPa	ASTM D638
Tensile Strain, break	23.4	%	ASTM D638
Tensile Modulus, 50 mm/min	2590	MPa	ASTM D638
Flexural Stress	41	MPa	ASTM D790
Flexural Modulus	2040	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	229	J/m	ASTM D4812
Izod Impact, notched, 23°C	21	J/m	ASTM D256
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	63	°C	ASTM D648
PHYSICAL ⁽¹⁾			
Density	1.12	g/cm ³	ASTM D792
Mold Shrinkage, flow, 24 hrs ⁽²⁾	1	%	ASTM D955
INJECTION MOLDING ⁽³⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Melt Temperature	225 – 250	°C	
Front - Zone 3 Temperature	240 – 250	°C	
Middle - Zone 2 Temperature	215 – 225	°C	
Rear - Zone 1 Temperature	195 – 205	°C	
Mold Temperature	30 – 50	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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