LNP™ THERMOCOMP™ COMPOUND MFB22EXJ

DESCRIPTION

LNP THERMOCOMP MFB22EXJ compound is based on Polypropylene (PP) resin containing 10% glass fiber and 10% glass bead. Added features of this grade include: Easy Molding, Low Extractables, Healthcare, Food Contact compliant.

GENERAL INFORMATION	
Features	Good Processability, Food contact, Healthcare/Formula lock, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber, Glass Bead
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Water Management
Consumer	Home Appliances
Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging, Food & Beverage

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 5 mm/min	34	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	30	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	3.9	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	6.7	%	ASTM D638
Tensile Modulus, 5 mm/min	4080	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	50	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2970	MPa	ASTM D790
IMPACT [1]			
Izod Impact, notched, 23°C	39	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	100	°C	ASTM D648
PHYSICAL [1]			
Density	1.05	g/cm³	ASTM D792
Melt Flow Rate, 210°C/5 kgf	12 – 20	g/10 min	ASTM D1238
INJECTION MOLDING [2]			
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	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Rear - Zone 1 Temperature	195 – 205	°C	
Mold Temperature	30 – 50	°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) 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.

DISCLAIMER