LNP™ VERTON™ COMPOUND MV008S

MFX-7008 HS

DESCRIPTION

LNP VERTON* MV008S is a compound based on Polypropylene resin containing 40% Long Glass Fiber. Added features of this material include: Chemically Coupled, Heat Stabilized, Structural.

TYPICAL PROPERTY VALUES

Revision 20190405

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	119	MPa	ASTM D 638
Tensile Strain, break	2.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	9550	MPa	ASTM D 638
Flexural Stress	179	MPa	ASTM D 790
Flexural Modulus	7800	MPa	ASTM D 790
Tensile Stress, break	127	MPa	ISO 527
Tensile Strain, break	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	10120	MPa	ISO 527
Flexural Stress	187	MPa	ISO 178
Flexural Modulus	8250	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	208	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	10	J	ASTM D 3763
Multiaxial Impact	10	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	50	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	25	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	157	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.26E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.61E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.27E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	164	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	160	°C	ISO 75/Af
Relative Temp Index, Elec (1)	65	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	65	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	65	°C	UL 746B
PHYSICAL			
Density	1.23	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.08	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.32	%	ISO 294
Density	1.22	g/cm³	ISO 1183

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E45329-101358095	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	220 – 250	°C	
Front - Zone 3 Temperature	250 – 260	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	230 – 245	°C	
Mold Temperature	40 – 65	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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