LNP™ VERTON™ COMPOUND MV00AS

MFX-700-10 HS

DESCRIPTION

LNP VERTON* MV00AS is a compound based on Polypropylene resin containing 50% Long Glass Fiber. Added features of this material include: Chemically Coupled, Heat Stabilized, Structural.

TYPICAL PROPERTY VALUES

Revision 20190816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Modulus, 5 mm/min	10440	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	131	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	9350	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	190	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	140	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	14000	MPa	ISO 527
Flexural Stress, break, 2 mm/min	209	MPa	ISO 178
Flexural Modulus, 2 mm/min	11700	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	208	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	13	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	55	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	27	kJ/m²	ISO 180/1A
Multiaxial Impact	13	J	ISO 6603
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	157	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.4E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.6E-05	1/°C	ASTM E 831
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	159	°C	ISO 75/Af
CTE, -40°C to 40°C, flow	3.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.6E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, flow	3.4E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	4.6E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.33	g/cm³	ASTM D 792
Wear Factor Washer	73	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.34	-	ASTM D 3702 Modified: Manual
Static COF	0.52	-	ASTM D 3702 Modified: Manual
Density	1.4	g/cm³	ISO 1183
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E45329-101358095	-	-

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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