LNP™ VERTON™ COMPOUND MV00CS

MFX70012HS

DESCRIPTION

LNP VERTON MV00CS is a compound based on PP resin containing Long Glass Fiber.

TYPICAL PROPERTY VALUES

Revision 20190925

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	120	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	15100	MPa	ISO 527
Flexural Modulus, 2 mm/min	13700	MPa	ISO 178
Flexural Stress, break, 2 mm/min	175	MPa	ISO 178
Tensile Modulus, 5 mm/min	17300	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.1	%	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	120	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	13800	MPa	ASTM D 790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	170	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	135	MPa	ASTM D 790
IMPACT			
Izod Impact, notched 80*10*4 +23°C	14	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	39	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	13	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	29	kJ/m²	ISO 179/1eU
Izod Impact, notched, 23°C	155	J/m	ASTM D 256
Izod Impact, unnotched, 23°C	620	J/m	ASTM D 4812
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	154	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	160	°C	ISO 75/Bf
HDT, 1.82 MPa, 3.2mm, unannealed	156	°C	ASTM D 648
PHYSICAL			
Density	1.47	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.04	%	ISO 62
Mold Shrinkage, flow, 24 hrs	0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8	%	ASTM D 955
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	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	40 – 65	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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