LNP™ VERTON™ COMPOUND MV00CS

MFX70012HS

DESCRIPTION

LNP VERTON MV00CS is a compound based on Polypropylene (PP) resin containing 60% long glass fiber. Added features include Chemically Coupled, Heat Stabilized and Structural.

GENERAL INFORMATION	
Features	Heat Stabilized, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Exteriors
Building and Construction	Water Management
Consumer	Sport/Leisure, Home Appliances, Commercial Appliance
Industrial	Industrial General

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
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 D638
Tensile Strain, brk, Type I, 5 mm/min	1.1	%	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	120	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	13800	MPa	ASTM D790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	170	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	135	MPa	ASTM D790
IMPACT [1]			
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 D256
Izod Impact, unnotched, 23°C	620	J/m	ASTM D4812
THERMAL [1]			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	154	°C	ISO 75/Af

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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 D648
PHYSICAL (1)			
Density	1.47	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.04	%	ISO 62
Mold Shrinkage, flow, 24 hrs (2)	0.6	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs (2)	0.8	%	ASTM D955
INJECTION MOLDING (3)			
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) 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.

DISCLAIMER