

LNP™ VERTON™ MV00ES compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP VERTON MV00ES is primarily a concentrate used for blending purposes. This is a 70% long glass fiber Polypropylene compound. Added features of this grade are: Heat Stabilized

Also known as: LNP* VERTON* Compound MFX-700-14 HS

Product reorder name: MV00ES

General Information			
Filler / Reinforcement	Long Glass Fiber,70% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Blending		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Water Absorption			
24 hr, 50% RH	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	20200	MPa	ASTM D638
--	20500	MPa	ISO 527-2/1
Tensile Strength			
Break ²	100	MPa	ASTM D638
Break	107	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.0	%	ASTM D638
Break	0.80	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	16200	MPa	ASTM D790
-- ⁵	16900	MPa	ISO 178
Flexural Stress			
--	171	MPa	ISO 178
Yield, 50.0 mm Span ⁶	153	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁷			ISO 180/1A

-40°C	120	kJ/m²	
23°C	29	kJ/m²	
Unnotched Izod Impact			
23°C	550	J/m	ASTM D4812
23°C ⁸	39	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.90	J	ASTM D3763
--	3.24	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	150	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	154	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.3E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	232 to 243	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	249 to 260	°C	
Processing (Melt) Temp	221 to 249	°C	
Mold Temperature	37.8 to 65.6	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

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