

LNP™ VERTON™ UV00AS compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP VERTON UV00AS is a compound based on Polyphthalamide resin containing 50% Long Glass Fiber. Added features of this material include: Heat Stabilized, Structural.

Also known as: LNP* VERTON* Compound UF-700-10 HS

Product reorder name: UV00AS

General Information			
Filler / Reinforcement	Long Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Structural Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.67	g/cm ³	ASTM D792
--	1.66	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.48	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19300	MPa	ASTM D638
--	19200	MPa	ISO 527-2/1
Tensile Strength			
Yield	258	MPa	ASTM D638
Yield	222	MPa	ISO 527-2
Break	258	MPa	ASTM D638
Break	222	MPa	ISO 527-2
Tensile Elongation			
Yield	1.8	%	ASTM D638
Yield	1.4	%	ISO 527-2
Break	1.8	%	ASTM D638
Break	1.4	%	ISO 527-2
Flexural Modulus			
--	17200	MPa	ASTM D790
--	17000	MPa	ISO 178

Flexural Strength			
--	386	MPa	ASTM D790
--	393	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	270	J/m	ASTM D256
23°C ²	42	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C ³	78	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.90	J	ASTM D3763
--	7.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	291	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	296	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	266	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	272	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	1.4E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	1.5E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	316 to 327	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 332	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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