

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.

Also known as: LNP* VERTON* Compound UF70010HS

Product reorder name: UV00AS

General Information			
Filler / Reinforcement	Long glass fiber, 50% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Flow	0.10 - 0.20	%	Internal method
Transverse flow	0.20 - 0.30	%	Internal method
Water Absorption (23°C, 24 hr)	0.42	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	254	MPa	ISO 527-2/5
Fracture	254	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	2.3	%	ISO 527-2/5
Fracture	2.4	%	ISO 527-2/5
Flexural Modulus ¹	16100	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	388	MPa	ISO 178
-- ⁴	364	MPa	ISO 178
Flexural Strain at Break ⁵	2.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁶ (23°C)	40	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	70	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, unannealed, 64.0mm span	296	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	273	°C	ISO 75-2/Af

Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.9E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	316 - 327	°C	
Middle Temperature	321 - 332	°C	
Front Temperature	332 - 343	°C	
Processing (Melt) Temp	316 - 332	°C	
Mold Temperature	138 - 166	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	Yield		
4.	Break		
5.	2 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		

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