

LNP™ VERTON™ UV00AS compound

Polyphthalamide
SABIC Innovative Plastics

Message:

LNP VERTON UV00AS is a compound based on Polyphthalamide resin containing Long Glass Fiber. Added features of this material include: Heat Stabilized.
Also known as: LNP* VERTON* Compound UF-700-10 HS
Product reorder name: UV00AS

General Information			
Filler / Reinforcement	Long glass fiber		
Additive	heat stabilizer		
Features	Thermal Stability		
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 hours	0.20	%	ASTM D955
Transverse flow: 24 hours	0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.48	%	ISO 294-4
Flow direction: 24 hours	0.20	%	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
Fracture	258	MPa	ASTM D638
Fracture	222	MPa	ISO 527-2
Tensile Elongation			
Yield	1.8	%	ASTM D638
Yield	1.4	%	ISO 527-2
Fracture	1.8	%	ASTM D638
Fracture	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, 3.20mm	291	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	296	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	266	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	272	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	1.4E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	1.5E-5	cm/cm/°C	ISO 11359-2
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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