

LNP™ VERTON™ UX03320 compound

Polyphthalamide

SABIC Innovative Plastics

Message:

VERTON* UX03320 is a compound based on Polyphthalamide resin containing Long Glass.

Also known as: LNP* VERTON* Compound PDX-U-03320

Product Reorder name: UX03320

General Information			
Filler / Reinforcement	Long glass fiber		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.050 - 0.10	%	ASTM D955
Transverse flow: 24 hours	0.080 - 0.20	%	ASTM D955
Vertical flow direction: 24 hours	0.15	%	ISO 294-4
Flow direction: 24 hours	0.060	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30	%	ISO 62
Spiral flow length			Internal method
1.00 mm	30.0		Internal method
3.00 mm	70.0		Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	18200	MPa	ASTM D638
--	20300	MPa	ISO 527-2/1
Tensile Strength			
Fracture	220	MPa	ASTM D638
Fracture	200	MPa	ISO 527-2
Tensile Elongation (Break)	1.9	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	18000	MPa	ASTM D790
--	17700	MPa	ISO 178
-- ²	17700	MPa	ISO 178
Flexural Strength			
--	300	MPa	ASTM D790
--	360	MPa	ISO 178
--	360	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	300	J/m	ASTM D256
23°C ³	38	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	800	J/m	ASTM D4812
23°C ⁴	70	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	15.0	J	ASTM D3763
--	19.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	260	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	275	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	2.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	HB		UL 94
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.	5.0 mm/min		
2.	2.0 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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