

LNP* Verton* UX06451 BK8-312 is a compound based on Polyphthalamide resin containing Long Glass Fiber.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	244	MPa	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	19780	MPa	ASTM D 638
Tensile Stress, break	230	MPa	ISO 527
Tensile Strain, break	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	18600	MPa	ISO 527
Flexural Stress	335	MPa	ISO 178
Flexural Modulus	17500	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	923	J/m	ASTM D 4812
Izod Impact, notched, 23°C	309	J/m	ASTM D 256
Multiaxial Impact	13	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	60	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	30	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
CTE, -40°C to 40°C, flow	2.2E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.2E-05	1/°C	ISO 11359-2
PHYSICAL	Value	Unit	Standard
Density	1.63	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.06	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.2	%	ISO 294
Density	1.63	g/cm ³	ISO 1183

Source GMD, last updated:01/02/2007

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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