SABIC Innovative Plastics™

LNP* Verton* Compound UF-700-12 HS EXP

Asia Pacific: COMMERCIAL

Also known as: LNP* Verton* Compound UF-700-12 HS EXP BK8-312
Product reorder name: UF-700-12 HS EXP

LNP* Verton* UF-700-12 HS EXP is a compound based on Polyphthalamide resin containing Long Glass Fiber. Added features of this material include: Heat Stabilized.

TYPICAL PROPERTIES [1]	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yield	2430	kgf/cm²	ASTM D 638
Tensile Stress, break	2430	kgf/cm²	ASTM D 638
Tensile Strain, yield	1.4	%	ASTM D 638
Tensile Strain, break	1.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	232000	kgf/cm²	ASTM D 638
Flexural Stress	3510	kgf/cm²	ASTM D 790
Flexural Modulus	196800	kgf/cm²	ASTM D 790
Tensile Stress, yield	238	MPa	ISO 527
Tensile Stress, break	216	MPa	ISO 527
Tensile Strain, yield	1.4	%	ISO 527
Tensile Strain, break	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	22240	MPa	ISO 527
Flexural Stress	341	MPa	ISO 178
Flexural Modulus	19000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	90	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	22	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	143	cm-kgf	ASTM D 3763
Multiaxial Impact	48	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	46	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	28	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	281	°C	ASTM D 648

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TYPICAL PROPERTIES [1]	TYPICAL VALUE	UNIT	STANDARD
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	255	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.9E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.3E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	283	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	257	°C	ISO 75/Af
PHYSICAL			
Density	1.72	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.45	%	ISO 294
Density	1.72	g/cm³	ISO 1183