

LNPTM VERTONTM COMPOUND NV008E

PCA-F-7008 EM

DESCRIPTION

LNP VERTON NV008E is a compound based on Polycarbonate + ABS (PC+ABS) resin containing 40% long glass fiber. Added features include Easy Molding and Structural.

GENERAL INFORMATION	
Features	Good Processability, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polycarbonate + ABS (PC+ABS)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Exteriors
Building and Construction	Water Management
Consumer	Sport/Leisure, Home Appliances
Industrial	Industrial General

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	146	MPa	ASTM D638
Tensile Stress, break	146	MPa	ASTM D638
Tensile Strain, yield	1.4	%	ASTM D638
Tensile Strain, break	1.4	%	ASTM D638
Tensile Modulus, 50 mm/min	20270	MPa	ASTM D638
Flexural Stress	213	MPa	ASTM D790
Flexural Modulus	11030	MPa	ASTM D790
Tensile Stress, yield	156	MPa	ISO 527
Tensile Stress, break	156	MPa	ISO 527
Tensile Strain, yield	1.3	%	ISO 527
Tensile Strain, break	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	12400	MPa	ISO 527
Flexural Stress	224	MPa	ISO 178
Flexural Modulus	11700	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	736	J/m	ASTM D4812
Izod Impact, notched, 23°C	304	J/m	ASTM D256
Izod Impact, notched, -40°C	320	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	14	J	ASTM D3763
Izod Impact, unnotched 80*10*4 +23°C	50	kJ/m²	ISO 180/1U

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Izod Impact, notched 80*10*4 +23°C	28	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	34	kJ/m ²	ISO 180/1A
THERMAL ⁽¹⁾			
CTE, -40°C to 40°C, flow	1.98E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	4.32E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	2.06E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.47E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	131	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Density	1.49	g/cm ³	ASTM D792
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.3	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.05	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.27	%	ISO 294
Density	1.5	g/cm ³	ISO 1183
INJECTION MOLDING ⁽³⁾			
Drying Temperature	80 – 95	°C	
Drying Time	2 – 4	Hrs	
Maximum Moisture Content	0.04	%	
Melt Temperature	275 – 290	°C	
Front - Zone 3 Temperature	280 – 295	°C	
Middle - Zone 2 Temperature	270 – 280	°C	
Rear - Zone 1 Temperature	260 – 270	°C	
Mold Temperature	60 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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