LNP™ VERTON™ COMPOUND NV008E

PCA-F-7008 EM

DESCRIPTION

LNP VERTON NV008E is a compound based on PC+ABS resin containing 40% Long Glass Fiber. Added features of this material include: Easy Molding. Structural.

TYPICAL PROPERTY VALUES

Revision 20190304

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	146	MPa	ASTM D 638
Tensile Stress, break	146	MPa	ASTM D 638
Tensile Strain, yield	1.4	%	ASTM D 638
Tensile Strain, break	1.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	20270	MPa	ASTM D 638
Flexural Stress	213	MPa	ASTM D 790
Flexural Modulus	11030	MPa	ASTM D 790
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			
Izod Impact, unnotched, 23°C	736	J/m	ASTM D 4812
Izod Impact, notched, 23°C	304	J/m	ASTM D 256
Izod Impact, notched, -40°C	320	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	14	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	50	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	28	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	34	kJ/m²	ISO 180/1A
THERMAL			
CTE, -40°C to 40°C, flow	1.98E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.32E-05	1/°C	ASTM E 831
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			
Density	1.49	g/cm³	ASTM D 792
Mold Shrinkage, xflow, 24 hrs	0.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.05	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.27	%	ISO 294
Density	1.5	g/cm³	ISO 1183

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING			
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	

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