

LNPTM VERTON™ COMPOUND RVL28

RFL-8028 EM HS

DESCRIPTION

LNP VERTON RVL28 is a compound based on Polyamide 66 (Nylon 66) resin containing 40% long glass fiber, 10% PTFE. Added features include Easy Molding, Heat Stabilized, Wear Resistant and Structural.

GENERAL INFORMATION	
Features	Good Processability, Heat Stabilized, Wear resistant, High stiffness/Strength
Fillers	Glass Fiber, PTFE
Polymer Types	Polyamide 66 (Nylon 66)
Processing Techniques	Injection Molding

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

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	228	MPa	ISO 527
Tensile Stress, break	228	MPa	ISO 527
Tensile Strain, yield	2.4	%	ISO 527
Tensile Strain, break	2.4	%	ISO 527
Tensile Modulus, 1 mm/min	13230	MPa	ISO 527
Flexural Stress	351	MPa	ISO 178
Flexural Modulus	13000	MPa	ISO 178
Tensile Stress, yield	220	MPa	ASTM D638
Tensile Stress, break	220	MPa	ASTM D638
Tensile Strain, yield	2.3	%	ASTM D638
Tensile Strain, break	2.3	%	ASTM D638
Tensile Modulus, 50 mm/min	14470	MPa	ASTM D638
Flexural Stress	337	MPa	ASTM D790
Flexural modulus	12200	MPa	ASTM D790
IMPACT			
Izod Impact, notched 80*10*4 +23°C	23	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	93	kJ/m ²	ISO 180/1U
Multiaxial Impact	7	J	ISO 6603
Izod Impact, notched, 23°C	265	J/m	ASTM D256
Izod Impact, unnotched, 23°C	1409	J/m	ASTM D4812

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Instrumented Dart Impact Energy @ peak, 23°C	14	J	ASTM D3763
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	255	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	259	°C	ISO 75/Bf
CTE, -40°C to 40°C, flow	2.10E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.90E-05	1/°C	ISO 11359-2
HDT, 0.45 MPa, 3.2 mm, unannealed	256	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	252	°C	ASTM D648
CTE, -40°C to 40°C, flow	2.16E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	4.86E-05	1/°C	ASTM E831
PHYSICAL			
Density	1.57	g/cm ³	ISO 1183
Mold Shrinkage, flow, 24 hrs	0.33	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.77	%	ISO 294
Density	1.57	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.5	%	ASTM D570
Mold Shrinkage, flow, 24 hrs	0.2 – 0.4	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ASTM D955
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	290 – 305	°C	
Front - Zone 3 Temperature	290 – 300	°C	
Middle - Zone 2 Temperature	290 – 300	°C	
Rear - Zone 1 Temperature	280 – 295	°C	
Mold Temperature	95 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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