LNP™ VERTON™ COMPOUND RVL36

RFL-8036

DESCRIPTION

LNP VERTON RVL36 is a compound based on Nylon 66 resin containing Long Glass Fiber, PTFE.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	185	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.9	%	ISO 527
Flexural Stress, yield, 2 mm/min	265	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.3	%	ISO 178
Flexural Modulus, 2 mm/min	8900	MPa	ISO 178
Flexural Strain, break, 2 mm/min, 60°C	3.9	%	ISO 178
Flexural Strain, break, 2 mm/min, 100°C	4	%	ISO 178
Flexural Strain, break, 2 mm/min, 150°C	3.6	%	ISO 178
Flexural Strain, break, 2 mm/min, 200°C	3.4	%	ISO 178
Flexural Stress, yield, 2 mm/min, 60°C	208	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 100°C	155	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 150°C	129	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 200°C	105	MPa	ISO 178
Flexural Modulus, 2 mm/min, 60°C	7100	MPa	ISO 178
Flexural Modulus, 2 mm/min, 100°C	5800	MPa	ISO 178
Flexural Modulus, 2 mm/min, 150°C	5200	MPa	ISO 178
Flexural Modulus, 2 mm/min, 200°C	4800	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*3 -40°C	15	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	54	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -40°C	50	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m²	ISO 180/1A
THERMAL			
Specific Heat	1846	J/kg-K	ASTM E 1269
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	258	°C	ISO 75/Af
Thermal Conductivity	0.25	W/m-K	ASTM D 5930
PHYSICAL			
Mold Shrinkage, flow, 24 hrs	0.25	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.69	%	ISO 294
Wear Factor Washer	12	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Density	1.53	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	1.37	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.4	%	ISO 62
INJECTION MOLDING			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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