

NOVALAC FM 9001

Phenolic

Vyncolit N.V.

Message:

FM 9001 is a fiberglass and mineral reinforced phenolic molding compound, with excellent dimensional stability and good strength at elevated temperatures.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Ultra high toughness		
	Good dimensional stability		
	Low smoke		
	High strength		
	Antibacterial property		
	Solvent resistance		
	Good creep resistance		
	alkali resistance		
	acid resistance		
Uses	Membrane key switch		
	Pump parts		
	Gear		
	Electrical/Electronic Applications		
	Electrical appliances		
	Power/other tools		
	Connector		
	Application in Automobile Field		
	Shell		
Appearance	Black		
Forms	Particles		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (M-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	72.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	14500	MPa	ASTM D790
Flexural Strength (Break)	130	MPa	ASTM D790
Compressive Strength	275	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	38	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	190	°C	ASTM D648
CLTE - Flow	1.9E-5	cm/cm/°C	ASTM E831
RTI Elec	150	°C	UL 746
RTI Imp	150	°C	UL 746
RTI	150	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	60.0	°C	
Middle Temperature	73.9	°C	
Nozzle Temperature	87.8	°C	
Processing (Melt) Temp	98.9 - 116	°C	
Mold Temperature	166 - 188	°C	
Injection Pressure	100 - 248	MPa	
Holding Pressure	30.0 - 89.6	MPa	
Back Pressure	4.83 - 15.2	MPa	
Injection instructions			

Plastication: 50rpmInjection Time: 2 to 8 secHold Time: 1 to 5 sec/mmCure Time, 0.125 in: 5 to 12 sec/mmAll ASTM properties listed were tested in accordance with ASTM D5948.Powder Density, ASTM D1895: 0.8 g/cm³Water Absorption, ASTM D570, 48 hrs, 50°C: 0.15%DTUL @264psi - Unannealed, ASTM D648, Post Baked, Compression Molded: >282°C

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