

NOVALAC FM 3001

Phenolic

Vyncolit N.V.

Message:

FM 3001 is a self-lubricated cellulose reinforced phenolic molding compound, modified for applications requiring reduced friction and low wear.

General Information			
Filler / Reinforcement	Fiber filler		
Additive	Lubricant		
Features	Good dimensional stability		
	Low friction coefficient		
	Low smoke		
	Solvent resistance		
	Good creep resistance		
	alkali resistance		
	Good wear resistance		
	acid resistance		
	Self-lubricating		
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	1.41	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	42.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	7600	MPa	ASTM D790
Flexural Strength (Break)	60.0	MPa	ASTM D790
Compressive Strength	160	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	180	°C	ASTM D648
CLTE - Flow	2.4E-5	cm/cm/°C	ASTM E831
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: 50rpm Injection Time: 2 to 8 sec Hold Time: 1 to 5 sec/mm Cure Time, 0.125 in: 5 to 12 sec/mm All ASTM properties listed were tested in accordance with ASTM D5948. Powder Density, ASTM D1895: 0.45 g/cm³ Water Absorption, ASTM D570, 48 hrs, 50°C: 1.2%

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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