

NOVALAC FM 7700

Phenolic

Vyncolit N.V.

Message:

NOVALAC FM 7700 is a phenolic (Phenolic) material, which contains fiber filler. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing methods are: resin transfer molding, compression molding or injection molding.

The main features of NOVALAC FM 7700 are:

flame retardant/rated flame

chemical resistance

Creep resistance

Good dimensional stability

Typical application areas include:

Electrical/electronic applications

engineering/industrial accessories

electrical appliances

House

Tools

General Information			
Filler / Reinforcement	Fiber filler		
Features	Good dimensional stability		
	Low smoke		
	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		
Agency Ratings	ASTM D 5948, Type CFI-20		
Forms	Particle		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.38	g/cm ³	ASTM D792
Bulk Factor	4.1		ASTM D1895
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)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	41.4	MPa	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	86.2	MPa	ASTM D790
Compressive Strength	165	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	177	°C	ASTM D648
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
RTI Elec	150	°C	UL 746
RTI Imp	150	°C	UL 746
RTI	150	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			ASTM D149
-- ¹	5.5	kV/mm	ASTM D149
-- ²	3.1	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	60.0	°C	
Middle Temperature	73.9	°C	
Nozzle Temperature	98.9	°C	
Processing (Melt) Temp	98.9 - 110	°C	
Mold Temperature	160 - 171	°C	
Back Pressure	0.345	MPa	
Injection instructions			
Plastication: 50 to 65rpm Injection Pressure: Set to give 6 to 10 seconds injection time Hold Pressure: 50 to 100% of injection pressure Hold Time: 15 sec minimum Cure Time, 0.125 in: 40 to 45 sec Water Absorption, ASTM D570, 48 hrs, 50°C: 2.2% Dielectric Strength, ASTM D149, 60 Hz, Method A, wet: 140 V/mil Dielectric Strength, ASTM D149, 60 Hz, Method B, wet: 80 V/mil Bulk Factor, ASTM D1895: 3.6 to 4.6 Compression and Transfer Molding Conditions: Preforming Pressure: 8000 to 12000 psi Preheat Temperature: 210 to 235 °F Preheat Time: 45 sec Mold Temperature: 330 to 360 °F Compression Mold Pressure: 2500 to 5000 psi Transfer Mold Pressure: 4000 to 6000 psi Cure Time, 0.125 in: 40 to 50 sec			
NOTE			

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| 1. | Method A (short time) |
| 2. | Method B (step by step) |

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