

NOVALAC FM 4056J-7

Phenolic

Vyncolit N.V.

Message:

NOVALAC FM 4056J-7 is a phenolic (Phenolic) material, which contains a glass fiber reinforced material. 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 4056J-7 are:

- chemical resistance
- high strength
- Creep resistance
- Good dimensional stability
- Good toughness
- Typical application areas include:
 - Electrical/electronic applications
 - engineering/industrial accessories
 - electrical appliances
 - House
 - Tools

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
Uses	acid resistance
	Membrane key switch
	Pump parts
	Gear
	Electrical/Electronic Applications
	Electrical appliances
	Power/other tools
	Connector
Forms	Application in Automobile Field
	Shell
Processing Method	Particles
	Resin transfer molding
	Compression molding

Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm ³	ASTM D792
Bulk Factor	3.0		ASTM D1895
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	79.3	MPa	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Compressive Strength	290	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	188	°C	ASTM D648
CLTE - Flow	1.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			ASTM D149
-- ¹	15	kV/mm	ASTM D149
-- ²	14	kV/mm	ASTM D149
Arc Resistance	180	sec	ASTM D495
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	
Back Pressure	0.207	MPa	
Injection instructions			
Plastication: 50rpm Injection Pressure: Set to give 3 to 5 seconds injection time Hold Pressure: 50 to 100% of injection pressure Hold Time: 10 sec minimum Cure Time, 0.125 in: 30 to 35 sec Water Absorption, ASTM D570, 48 hrs, 50°C: 0.15% DTUL @264psi - Unannealed, ASTM D648, Post Baked: 550°F Dielectric Strength, ASTM D149, 60 Hz, Method A, wet: 375 V/mil Dielectric Strength, ASTM D149, 60 Hz, Method B, wet: 350 V/mil Bulk Factor, ASTM D1895: 2.5 to 3.5 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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