# **RESOLE FM 4029F**

## Phenolic

Vyncolit N.V.

### Message:

RESOLE FM 4029F 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 RESOLE FM 4029F 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	
	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 MFH	
Forms	Particles	
Processing Method	Resin transfer molding	

#### Compression molding

#### Injection molding

2.11 2.1 0.10	g/cm³	ASTM D792 ASTM D1895
		ASTM D1895
0.10		
	%	ASTM D955
0.10	%	ASTM D570
Nominal Value	Unit	Test Method
80		ASTM D785
Nominal Value	Unit	Test Method
44.8	МРа	ASTM D638
20700	MPa	ASTM D790
103	МРа	ASTM D790
172	МРа	ASTM D695
Nominal Value	Unit	Test Method
21	J/m	ASTM D256A
Nominal Value	Unit	Test Method
243	°C	ASTM D648
1.3E-5	cm/cm/°C	ASTM D696
Nominal Value	Unit	
60.0	°C	
73.9	°C	
87.8	°C	
98.9 - 116	°C	
166 - 188	°C	
0.207	MPa	
	Nominal Value   30   Nominal Value   44.8   20700   103   172   Nominal Value   21   Nominal Value   23   1.3E-5   Nominal Value   50.0   73.9   37.8   98.9 - 116   166 - 188	Nominal Value   Unit     30   Unit     30   Unit     44.8   MPa     20700   MPa     103   MPa     107   MPa     103   MPa     104   Unit     105   Unit     106   188

Injection instructions

Plastication: 50rpmInjection Pressure: Set to give 3 to 5 seconds injection timeHold Pressure: 50 to 100% of injection pressureHold Time: 10 sec minimumCure Time, 0.125 in: 30 to 35 secWater Absorption, ASTM D570, 48 hrs, 50°C: 0.15%DTUL @264psi - Unannealed, ASTM D648, Post Baked: 550°FBulk Factor, ASTM D1895: 1.8 to 2.3Compression 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  $\ensuremath{\mathsf{sec}}$ 

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