NOVALAC RX®448

Phenolic

Vyncolit N.V.

Message:

NOVALAC RX®448 is a phenolic (Phenolic) material, and its filler is 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. NOVALAC RX® The main features of the 448 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-5				
Forms	Particle				
Processing Method	Resin transfer molding				
	Compression molding				
	Injection molding				
Physical	Nominal Value	Unit	Test Method		

Specific Gravity	1.43	g/cm³	ASTM D792
Bulk Factor	2.8		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	48.3	МРа	ASTM D638
Flexural Modulus	8270	МРа	ASTM D790
Flexural Strength	68.9	МРа	ASTM D790
Compressive Strength	203	МРа	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	188	°C	ASTM D648
Linear thermal expansion coefficient			ASTM D696
Flow	4.7E-5	cm/cm/°C	ASTM D696
Lateral	5.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.56	W/m/K	ASTM C177
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	5.9	kV/mm	ASTM D149
²	3.9	kV/mm	ASTM D149
Arc Resistance	65.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.59 mm	НВ		UL 94
3.18 mm	НВ		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 65rpmInjection Pressure: Set to give 6 to 10 seconds injection timeHold Pressure: 50 to 100% of injection pressureHold Time: 15 sec minimumCure Time, 0.125 in: 40 to 45 secThe value listed as Thermal Conductivity, ASTM C177, was tested in accordance with ASTM F433.Water Absorption, ASTM D570, 48 hrs, 50°C: 1.5% Flexural Strain, ASTM D790: 0.81% Dielectric Strength, ASTM D149, 60 Hz, Method A, wet: 150 V/milDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 100 V/milCompression 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 1.

Method A (short time)

2.

Method B (step by step)

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