NOVALAC RX®342

Phenolic

Vyncolit N.V.

Message:

NOVALAC RX®342 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 342 are:
chemical resistance
Creep resistance
Good dimensional stability
Lubrication
Typical application areas include:
Electrical/electronic applications
engineering/industrial accessories
electrical appliances
House
Tools

General Information	
Filler / Reinforcement	Fiber filler
Additive	Lubricant
Features	Good dimensional stability Low smoke Solvent resistance Good creep resistance alkali 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
Forms	Particle
Processing Method	Resin transfer molding Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm³	ASTM D792
Bulk Factor	2.4		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.25	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	65		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	41.4	MPa	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Compressive Strength	155	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)	191	°C	ASTM D648
Linear thermal expansion coefficient			ASTM D696
Flow	6.7E-5	cm/cm/°C	ASTM D696
Lateral	7.7E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.64	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Arc Resistance	30.0	sec	ASTM D495
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: 1.2%Flexural Strain, ASTM D790: 0.83%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

Recommended distributors for this material

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