NOVALAC RX®129

Phenolic

Vyncolit N.V.

Message:

NOVALAC RX®129 is a phenolic (Phenolic) material that contains mineral fillers. 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 129 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	Mineral filler
Features	Good dimensional stability Low smoke 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
Forms	Particles
Processing Method	Resin transfer molding Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.44	g/cm³	ASTM D792, ISO 1183
Bulk Factor	2.0		ASTM D1895
Molding Shrinkage			
Flow: Molding	0.50	%	ASTM D955
Flow direction	0.50	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570, ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			
E scale	90		ASTM D785
E scale	95		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
Fracture	40.0	MPa	ISO 527-2
--	44.8	MPa	ASTM D638
Flexural Modulus			
--	7580	MPa	ASTM D790
--	7000	MPa	ISO 178
Flexural Strength			
--	82.7	MPa	ASTM D790
--	75.0	MPa	ISO 178
Compressive Strength	224	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
--	24	J/m	ASTM D256A
--	1.0	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, not annealed	182	°C	ASTM D648
1.8 MPa, not annealed	185	°C	ISO 75-2/A
CLTE - Flow	4.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.49	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			
-- [1]	6.1	kV/mm	ASTM D149
-- [2]	3.5	kV/mm	ASTM D149
--	6.0	kV/mm	IEC 60243-1
Arc Resistance	125	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94

1.59 mm	HB	UL 94
3.18 mm	V-1	UL 94

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: 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 secThe value listed as Thermal Conductivity, ASTM C177, was tested in accordance with ASTM C518.The value listed as Molding Shrinkage, ISO 294-4, was tested in accordance with ISO 2577 using compression molded specimens.Water Absorption, ASTM D570, 48 hrs, 50°C: 1.2%Flexural Strain, ASTM D790: 1.2%DTUL @264psi - Unannealed, ASTM D648, Post Baked: 550°FDielectric Strength, ASTM D149, 60 Hz, Method A, wet: 155 V/milDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 90 V/milCompressive Strength, ISO 604: 260 MPaDielectric Strength, IEC 243, Method A, wet: 6 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)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT