NOVALAC RX®660

Phenolic

Vyncolit N.V.

Message:

RX®660 is a fiberglass reinforced phenolic molding compound, with good dimensional stability and good strength at elevated temperatures. Meets ASTM D-5948 Type MFH.

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
Appearance	Black Green
Forms	Particles
Processing Method	Resin transfer molding Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.81	g/cm³	ISO 1183

Molding Shrinkage - Flow	0.20	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.060	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	85		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, Compression Molded)	70.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	17000	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	2.7	kJ/m^2	ISO 180
Unnotched Izod Impact Strength	5.7	kJ/m^2	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM E831
Flow	2.3E-5	cm/cm/°C	ASTM E831
Lateral	2.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.69	W/m/K	ASTM C177
RTI Elec	180	°C	UL 746
RTI Imp	180	°C	UL 746
RTI	180	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.6E+13	ohms	IEC 60093
Volume Resistivity	5.0E+13	ohms·cm	IEC 60093
Dielectric Strength (1.00 mm)	25	kV/mm	IEC 60243-1
Arc Resistance	180	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.59 mm	V-0		UL 94
3.18 mm	V-0		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	
Injection Pressure	100 - 248	MPa	
Holding Pressure	30.0 - 89.6	MPa	
Back Pressure	4.83 - 15.2	MPa	
Injection instructions			

Plastication: 50rpmInjection Time: 2 to 8 secHold Time: 1 to 5 sec/mmCure Time, 0.125 in: 5 to 12 sec/mmAll ISO properties listed were tested in accordance with ISO 3167.All ASTM properties listed were tested in accordance with ASTM D5948.The value listed as Thermal Conductivity, ASTM C177, was tested in accordance with ASTM C518.Powder Density, ISO 60: 0.9 g/cm^{3}HDT A (1.80 MPa) Unannealed, ISO 75A, Post Baked: >282°CCompressive Strength, ISO 604: 270 MPa

Recommended distributors for this material

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