

# Vyncolit® SI 9002

Silicone

Vyncolit N.V.

## Message:

Vyncolit SI 9002 is a silicone (Silicone) material, and its filler is 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 characteristics of Vyncolit SI 9002 are: impact resistance.

Typical application areas include:

Electrical/electronic applications

Wire and cable

military applications

General Information	
Filler / Reinforcement	Glass fiber reinforced material
Features	Impact resistance, high
	Good electrical performance
Uses	Electronic insulation
	Military application
	Connector
Forms	Particles
Processing Method	Resin transfer molding
	Compression molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.10	g/cm <sup>3</sup>	ASTM D792
Bulk Factor	1.9		ASTM D1895
Molding Shrinkage - Flow (Transfer Molded)	0.50 - 0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.16	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	27.6	MPa	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	51.7	MPa	ASTM D790
Compressive Strength	87.9	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648
CLTE - Flow	3.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			ASTM D149
-- 1	9.4	kV/mm	ASTM D149
-- 2	8.9	kV/mm	ASTM D149
Arc Resistance	210	sec	ASTM D495
Injection	Nominal Value	Unit	
Middle Temperature	71.1 - 82.2	°C	
Nozzle Temperature	82.2 - 93.3	°C	
Processing (Melt) Temp	93.3	°C	
Mold Temperature	132 - 154	°C	
Injection Pressure	41.4 - 82.7	MPa	
Holding Pressure	20.7 - 41.4	MPa	
Back Pressure	0.345	MPa	
Injection instructions			
Cure Time, 0.125 in: 45 sec Water Absorption, ASTM D570, 48 hrs, 50°C: 0.39% Dielectric Strength, ASTM D149, 60 Hz, Method A, wet: 240 V/mil Dielectric Strength, ASTM D149, 60 Hz, Method B, wet: 225 V/mil Bulk Factor, ASTM D1895: 1.9 to 1.95 Compression and Transfer Molding Conditions: Preheat Temperature: 180 to 200 °F Mold Temperature: 280 to 300 °F Compression Mold Pressure: 2000 to 8000 psi Transfer Mold Pressure: 4000 to 8000 psi Cure Time, 0.125 in: 180 sec			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

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