

# Vyncolit® SI 9045T

Silicone

Vyncolit N.V.

## Message:

Vyncolit SI 9045T is a silicone (Silicone) material containing glass/graphite. 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 9045T are: impact resistance.

Typical application areas include:

Electrical/electronic applications

Wire and cable

military applications

General Information			
Filler / Reinforcement	Glass \graphite		
Features	Impact resistance, high		
	Good electrical performance		
Uses	Electronic insulation		
	Military application		
	Connector		
Forms	flake		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm <sup>3</sup>	ASTM D792
Bulk Factor	9.0		ASTM D1895
Molding Shrinkage - Flow (Transfer Molded)	0.30 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Compressive Strength	55.2	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)	288	°C	ASTM D648

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: 0.5% Bulk Factor, ASTM D1895: 8 to 10 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

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#### Recommended distributors for this material

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