Vyncolit® SI 9041

Silicone

Vyncolit N.V.

Message:

Vyncolit SI 9041 is a silicone (Silicone) material containing long glass fiber. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is: resin transfer molding or compression molding. The main characteristics of Vyncolit SI 9041 are: impact resistance.
Typical application areas include:
Electrical/electronic applications
Wire and cable
military applications

General Information	
Filler / Reinforcement	Long glass fiber
Features	Impact resistance, high Good electrical performance
Uses	Electronic insulation Military application Connector
Agency Ratings	ASTM D 5948, Type MSI-30
Forms	flake
Processing Method	Resin transfer molding Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.30	g/cm³	ASTM D792
Bulk Factor	7.0		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.010 - 0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	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	68.9	MPa	ASTM D790
Compressive Strength	75.8	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	270	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			ASTM D149
-- [1]	5.9	kV/mm	ASTM D149
-- [2]	3.9	kV/mm	ASTM D149
Arc Resistance	210	sec	ASTM D495

Additional Information
Water Absorption, ASTM D570, 48 hrs, 50°C: 0.4%Dielectric Strength, ASTM D149, 60 Hz, Method A, wet: 150 V/milDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 100 V/milBulk Factor, ASTM D1895: 6 to 8Compression and Transfer Molding Conditions: Preheat Temperature: 150 to 180 °F Mold Temperature: 280 to 300 °F Compression Mold Pressure: 2000 to 6000 psi Transfer Mold Pressure: 4000 to 8000 psi Cure Time, 0.125 in: 300 sec

NOTE	
1.	Method A (short time)
2.	Method B (step by step)

Recommended distributors for this material

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