

# Vyncolit® SI 9042

Silicone

Vyncolit N.V.

## Message:

SI 9042 is a long fiberglass reinforced silicone molding compound, which meets the requirements of ASTM D5948, Type MSI-30.

General Information			
Filler / Reinforcement	Long glass fiber		
Agency Ratings	ASTM D 5948, Type MSI-30		
Appearance	Black		
Forms	flake		
Processing Method	Resin transfer molding Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.03	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.0 - 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 (Break, Compression Molded)	28.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	13800	MPa	ASTM D790
Flexural Strength (Break)	75.0	MPa	ASTM D790
Compressive Strength	90.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	260	°C	ASTM D648
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			ASTM D149
-- 1	7.9	kV/mm	ASTM D149
-- 2	5.9	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.50		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Arc Resistance	180	sec	ASTM D495

#### Additional Information

All ASTM properties listed were tested in accordance with ASTM D5948. Water Absorption, ASTM D570, 48 hrs, 50°C: 0.3%DTUL @264psi - Unannealed, ASTM D648, Post Baked, Compression Molded: >260°C Dielectric Strength, ASTM D149, 60 Hz, Method B, wet: 5.9 kV/mm Dielectric Strength, ASTM D149, 60 Hz, Method A, wet: 7.9 kV/mm Dielectric Constant, ASTM D150, 1000000 Hz, dry: 4.5 Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.006

#### NOTE

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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

