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8882 High Gel Reenterable Encapsulant

Data Sheet

Description

3M brand 8882 High Gel Reenterable Encapsulant is a two-part nonurethane encapsulating compound. High Gel aggressively adheres to filled cable and is compatible with common plastics used in telephone splice connectors. Unlike other encapsulants,

High Gel is not formulated with potentially allergenic isocyanates. The encapsulant permits easy cable splice reentry for future changes and maintenance. The 8882 High Gel Reenterable Encapsulant is one of a system of products available from 3M.

Properties

Property	Test Method	Typical Value
Isocyanate Content	Non applicable	Not Isocyanate based
Tensile Strength	ASTM D412	11 psi at 75°F (126 kN/m ² at 24°C)
Elongation	ASTM D412 at 75°F (24°C)	300%
Tear Strength	ASTM D624 15 in./min.	1.6 lb./in. at 75°F (595 N/m at 24°C)
Coated Conductor Pull-out Flexgel	Telcordia TA-TSY-000354 Par. 6.15	9.2 lb. (77.8N)/pair 22 AWG (0.65 mm)
Filling Compound Compatibility -Flexgel®	Telcordia TA-TSY-000354 Par 6.17	2.1% gain at 70°F (21°C) 4.0% gain at 150°F (66°C)
Polycarbonate Compatibility	TA-TSY-000354 Par. 6.7	No stress cracking or physical property changes observed in samples
Gel Time	3M test method (Sunshine Gel Meter)	105 min. at 40°F (4°C) 62 min. at 75°F (24°C) 34 min. at 110°F (43°C)
Hydrolytic Stability	Telcordia TA-TSY-000354 Par. 6.01	2% gain
Peak Exotherm	Telcordia TA-TSY-000354 Par. 6.02	6°F rise from 75°F (0.6°C rise from 24°C)
Water Absorption	ASTM D570	0.2% gain
Dry Heat Aging	Telcordia TA-TSY-000354 Par. 6.03	2.0% loss
Color		Amber, transparent
Odor		Essentially odorless
Shelf Life	Telcordia TA-TSY-000354 Par. 6.10	No changes in gel time and physical properties after 21 days at 140°F(60°C)
Volumetric Expansion	Telcordia TA-TSY-000354 Par. 6.05	<1.0% observed

Properties *(continued)*

Property	Test Method	Typical Value
Viscosity Part A & Part B Mixed	3M test method (Brookfield Viscometer)	670 cps at 75°F (24°C) (4 minutes) 2150 cps at 40°F (4°C) (4 minutes)
Water Sensitivity	Telcordia TA-TSY-00354 Par. 6.07	<1.0% observed
Bond to Materials	Telcordia TA-TSY-00354 Par. 6.12	Good adhesion
Phase Stability	Telcordia TA-TSY-00354 Par. 6.14	Clear with no striations
Compatibility with Trilene, 4442, Caschem 165	Telcordia TA-TSY-00354 Par. 6.09	Complete bonding, no observed adverse effects
Copper Corrosion	Western Electric MS 17000, Section 1139 TA-TSY-000354 Par. 5.2.1	Non-corrosive

Ordering Information

Product	Number Packing	Shipping Unit
8882	500C (521 ml) 750C (781 ml) 1900C (1979 ml) 5000C (5203 ml) Pouch & Pail 8000C (8333 ml) Pouch & Pail	10 kits per case 4 kits per case 1 kit per case 2 kits per case 1 kit per case



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