

Communication Markets Division

3M[™] Scotchcast[™] Encapsulating and Blocking Compound 4407

3M[™] Scotchcast[™] Encapsulating and Blocking Compound 4407 is a hard encapsulant designed specifically for permanent splice protection and cable blocking applications. Scotchcast 4407 compound is formulated for virtually every telecommunications application requiring a hard, non-reenterable compound with good handling and performance characteristics. Scotchcast 4407 compound is a two-part polyurethane compound. It features excellent wetting properties and low viscosity, which means it flows quickly and freely. Its low temperature cure properties mean that it may be used in a wide range of temperatures. Scotchast 4407 compound doesn't contain TDI and meets applicable OSHA standards for safety.



3M[™] Scotchcast[™] Encapsulating and Blocking Compound 4407

3M Scotchcast Encapsulating Compound 4407 Properties

Property	Test Method	Typical Value	
Tensile strength	ASTM D 412	500 psi (3.45 MPa)	
Elongation	ASTM D 412	150%	
Hardness	Shore A	70	
Apparent free isocyanate	ASTM D 2615-70 (Adaptation)	2.60%	
Viscosity	Brookfield at 20 rpm	1200 cps mixed	
Gel time	180 gm sample at 23°F	15-21 min.	
Exotherm	180 gm sample at 75°F	150°F (66°C) max.	
Water Absorption	7 days in 73°F water	0.28% weight gain	
Insulation resistance	Aged 28 days/95°F/95% rel. humidity	5 × 10" ohms	
Dielectric constant	ASTM D 150-70	4.7 at 10 ³ Hz 3.8 at 10 ⁶ Hz	
Dissipation factor	ASTM D 150-70	0.04 at 10³ Hz 0.05 at 10° Hz	
Hydrolytic stability	7 days in water at 212°F	+2.0% weight gain -10 points, Shore A hardness	
Dry heat aging	21 days at 225°F	6.0% weight loss +11 Shore A	
Copper corrosion	30 days at 95°F/95% rel. humidity under 45V	0	
Stress cracking	On cut and stressed polyethelene for 48 hours/120°F	0	
Fungi resistance	ASTM G 21-70	0	

Ordering Information

Part Number	Product Decription	Package Quantity	Packaging Type	3M Stock Number
4407-A	Encapsulating compound 89 ml (94g)	10 each	Guard bag overpacked	80-6100-6033-9
4407-В	Encapsulating compound 197 ml (209g)	10 each	Guard bag overpacked	80-6100-6034-7
4407-Е	Encapsulating compound 283 ml (300g)	10 each	Guard bag overpacked	80-6100-6040-4
4407-C	Encapsulating compound 396 ml (420g)	10 each	Guard bag overpacked	80-6100-6036-2
4407-D	Encapsulating compound 636 ml (675g)	10 each	Guard bag overpacked	80-6100-6038-8
4407-1500/F	Encapsulating compound 1,415 ml (1500g)	2 each	Two part foil film bag	80-6110-1252-9

3M and Scotchcast are trademarks of 3M Company.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of 12 months from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**



Communication Markets Division 6801 River Place Blvd. Austin, TX 78726-9000 USA

 Phone
 1-800-426-8688

 Fax
 1-800-626-0329

 Web
 3M.com/Telecom

Please recycle. Printed in USA © 3M 2018. All rights reserved. 80-6113-2895-8