

C 853

Semi conductive adhesive sealant

Product Description C853 is a 1-part, ready to use, silicone adhesive rubber sealant, recommended for evaluation in applications where electrical semi-conductivity of the sealant is a significant design consideration. On exposure to moisture in the air at room temperature this adhesive sealant cures to a tough, durable, resilient silicone rubber. It utilizes a moisture vapour cure system, which releases an acetic acid vapour from the sealant surface during cure. Because C853 sealant has a paste-like consistency and only will flow with external pressure, it is suitable for use on horizontal, vertical and overhead surfaces in a thickness up to 10 mm.

- Key Performance Properties**
- Semi conductive
 - Self adhesion properties
 - One component product
 - Resistance to high temperatures
 - Low temperature flexibility
 - Thixotropic paste consistency

Applications C 853 silicone rubber adhesive sealant should be considered for industrial applications where electrical semi-conductivity characteristics of the finished products are important. Typical applications include gaskets and seals for electronic parts, which need EMI Shielding.

Typical Product Data **Typical uncured properties:**

Colour		Black
Specific gravity	g/cm ³	1.06
Application Rate	g/min	550
Tack Free Time	min	20
Consistency		Soft spreadable paste

Typical Product Data **Typical cured properties ¹⁾ :**

Hardness	Shore A	35
Tensile strength	MPa	2.0
Elongation	%	250
Shear Adhesion	MPa	1.0
Surface Resistivity	Ohm	500

¹⁾ cured for 7 days at 23°C and 50% RH.

Specifications Typical product data values should not be used as specification. Assistance and specification are available by contacting Momentive Performance Materials Technical Service RTV1 and RTV2.

Instructions for Use C853 will bond to most clean surfaces without the aid of primers. These surfaces normally include most metals, glass, ceramic, silicone rubber and some rigid plastics. A preliminary check should be made to determine bonding effects for each specific application. For difficult to bond substrates, use of a primer will usually improve adhesion. The Momentive Performance Materials primers SS4004P, SS4044P and SS4155 are recommended for use with this sealant/adhesive. Where adhesion is required, surfaces should be thoroughly cleaned with a suitable hydrocarbon solvent such as naphtha, methyl ethyl ketone (MEK) and isopropyl alcohol (IPA) to remove dirt, oil and grease. The surface should be wiped dry before applying the adhesive/sealant.

Clean up and removal:

For not cured material, solvent systems such as naphtha or methyl ethyl ketone (MEK) are most effective for clean-up.

After cure, selected chemical strippers, which will remove the silicone rubber, are available from other manufacturers. Specific product information may be obtained on request.

Handling and Safety Material Safety Data Sheets are available upon request from MOMENTIVE PERFORMANCE MATERIALS. Similar information for solvents and other chemicals used with the Momentive Performance Materials products should be obtained from your supplier. When solvents are used, proper safety precautions must be observed.

Storage and Warranty Period The warranted shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 4 months when stored in the original unopened containers below 27° C.

Availability C853 is available in 18.2 kg pails.



PRINCIPAL LOCATIONS – Regional Information

North America	World Headquarters 187 Danbury Road Wilton, CT 06897, USA	T 800.295.2392	F 607.754.7517
Latin America	Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700, Brazil	T +55.11.4534.9650	F +55.11.4534.9660
Europe, Middle East, Africa and India	D-51368 Leverkusen Germany	T 00.800.4321.1000 T +31.164.293.276	F +31.164.241.750
Pacific	Akasaka Park Building - 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan	T +81.3.5544.3100	F +81.3.5544.3101

CUSTOMER SERVICE CENTERS

North America	Charleston, WV 25314, USA E cs-na.silicones@momentive.com		
	<ul style="list-style-type: none"> • Specialty Fluids • UA, Silanes, Resins, and Specialties • RTV Products-Elastomers • Sealants and Adhesives & Construction 	T 800.523.5862 T 800.334.4674 T 800.332.3390 T 877.943.7325	F 304.746.1654 F 304.746.1623 F 304.746.1623 F 304.746.1654
Latin America	E cs-la.silicones@momentive.com		
	<ul style="list-style-type: none"> • Argentina & Chile • Brazil • Mexico & Central America • Venezuela, Ecuador, Peru, Colombia, & Caribbean 	T +54.11.4862.9544 T +55.11.4534.9650 T +52.55.5899.5135 T +58.212.285.2149	F +54.11.4862.9544 F +55.11.4534.9660 F +52.55.5899.5138 F +58.212.285.2149
Europe, Middle East, Africa and India	E cs-eur.silicones@momentive.com	T 00.800.4321.1000 T +31.164.293.276	F +31.164.241750
Pacific	E cs-ap.silicones@momentive.com		
	<ul style="list-style-type: none"> • Japan • China • Korea • Singapore 	T +81.276.20.6182 T +86.21.5050.4666 (ext. 1523) T +82.2.6201.4600 T +65.6220.7022	
Worldwide Hotline	Worldwide Web www.momentive.com	T 800.295.2392 T +607.786.8131	F +607.786.8309

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC., MOMENTIVE PERFORMANCE MATERIALS USA INC., MOMENTIVE PERFORMANCE MATERIALS ASIA PACIFIC PTE. LTD., MOMENTIVE PERFORMANCE MATERIALS WORLDWIDE INC., MOMENTIVE PERFORMANCE MATERIALS GmbH & Co. KG, MOMENTIVE PERFORMANCE MATERIALS SUISSE Sarl, THEIR SUBSIDIARIES AND AFFILIATES DOING BUSINESS IN LOCAL JURISDICTIONS (collectively "SUPPLIERS"), ARE SOLD BY THE RESPECTIVE LEGAL ENTITY OF THE SUPPLIER SUBJECT TO SUPPLIERS' STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIERS MAKE NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SUPPLIERS' PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. AFOREMENTIONED EXCLUSIONS OR LIMITATION OF LIABILITY ARE NOT APPLICABLE TO THE EXTENT THAT THE END-USE CONDITIONS AND/OR INCORPORATION CONDITIONS CORRESPOND TO THE RECOMMENDED CONDITIONS OF USE AND/OR OF INCORPORATION AS DESCRIBED BY SUPPLIER IN ITS PRODUCT DATA SHEET AND/OR PRODUCT SPECIFICATIONS. EXCEPT AS PROVIDED IN SUPPLIERS' STANDARD CONDITIONS OF SALE, SUPPLIERS AND THEIR REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Suppliers' materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Suppliers' products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Suppliers' Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Suppliers. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Suppliers or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.