



Acrylic/Silicone Double Coated Tape

9731-050 • 9731-085 • 9731-100

Preliminary Technical Data

May, 2011

Developmental Status Notice

3M™ Acrylic/Silicone Double Coated Tapes 9731-050, 9731-085, and 9731-100 are 3M developmental products. They are currently available on a limited basis and are only provided for evaluation. To discuss your evaluation, please contact 3M Technical Service at 651-736-8205.

Product Description

Note: The data presented in this preliminary data sheet are best estimates for the current product construction being evaluated. This product is still considered developmental and changes in product construction or process conditions may occur that can cause subsequent changes in product characteristics or performance. User should not make any business plans in reliance upon the future availability or the current properties of this product.

3M™ Acrylic/Silicone Double Coated Tapes 9731-050, 9731-085, and 9731-100 feature 3M™ Hi Performance Acrylic Adhesive 350 on the acrylic adhesive side which provides a combination of high wet grab and initial adhesion to a wide variety of materials including LSE plastics.

3M™ Acrylic/Silicone Double Coated Tapes 9731-050, 9731-085, and 9731-100 feature a silicone adhesive on the other side which provides adhesion to many difficult to bond to substrates including silicone rubbers and low surface energy plastics.

Product Construction

Notes:

Faceside Adhesive Type: 3M™ Hi Performance Acrylic Adhesive 350
 Backside Adhesive Type: Silicone
 Format: Double Lined, Double Coated Tape on Polyester Carrier Film
 Total Tape Thickness is WITHOUT Release Liners
 Faceside Adhesive is on the INTERIOR of the Roll
 Backside Adhesive is on the EXTERIOR of the Roll

3M™ Double Coated Tape	Faceside Adhesive Thickness		Faceside Liner Type	Faceside Liner Thickness		Carrier Film Thickness		Backside Adhesive Thickness		Backside Liner Type	Backside Liner Thickness		Total Tape Thickness	
	mils	μ		mils	μ	mils	μ	mils	μ		mils	μ	mils	μ
9731-050	0.6	15	Brown PCK	5.0	127	0.56	14	0.8	20	PET	2.9	74	2.0	50
9731-085	1.1	28	Brown PCK	5.0	127	0.56	14	1.7	43	PET	2.9	74	3.3	85
9731-100	1.3	33	Brown PCK	5.0	127	0.56	14	2.1	53	PET	2.9	74	3.9	100

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Typical Physical Properties

Note: The following technical information and data is based upon limited 3M testing conditions and should not be used for specification purposes.

**Adhesion to SS, Polycarbonate, ABS
ASTM D-3330, 90° peel @ 12 in/min**

3M™ Double Coated Tape	Adhesive Type	Adhesion to SS 15 min dwell @ RT		Adhesion to ABS 72 hr dwell @ RT		Adhesion to Polycarbonate 72 hr dwell @ RT	
		oz/in	N/100 mm	oz/in	N/100 mm	oz/in	N/100 mm
9731-050	Silicone	15.8	17.3	14.0	15.3	14.8	16.2
9731-050	Acrylic	27.5	30.0	28.0	30.5	34.4	37.5
9731-085	Silicone	20.8	22.6	15.8	17.2	17.4	19.0
9731-085	Acrylic	40.6	44.2	43.3	47.2	52.4	57.2
9731-100	Silicone	28.3	30.8	26.1	28.5	27.3	29.8
9731-100	Acrylic	40.1	43.7	40.1	43.7	49.7	54.2

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For Additional Information

To request additional product information or to arrange for sales assistance, call 3M Technical Service at 651-733-9071. Address correspondence to: 3M Industrial Adhesives and Tapes Division, 3M Center, Building 230-2G-14, St. Paul, MN 55144-1000.

Important Notice

The statements and technical information contained herein are based on tests and data which 3M believes to be reliable, but the accuracy or completeness of such statements and technical information is not guaranteed. User is responsible for determining whether a specific 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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