



Silicone/Acrylic Double Coated Tape

9731-050 • 9731-085 • 9731-100

Preliminary Technical Data

June, 2011

Developmental Status Notice

3M™ Silicone/Acrylic 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™ Silicone/Acrylic 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™ Silicone/Acrylic 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	Faceside Liner Thickness		Carrier Film Thickness		Backside Adhesive Thickness		Backside Liner	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.

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Printed in U.S.A.
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