93005LE 50µ 300LSE Double Coated Tape

Technical Data **April 2015**

Product Description

3M™ 93005LE is a 50µ Double Coated Polyester Tape featuring 3M™ Type 300LSE Acrylic Adhesive. Performance features include good resistance to consumer chemicals and excellent anti-lifting properties. 3M type 300LSE acrylic adhesive has a long history of successfully bonding a wide variety of similar and dissimilar materials such as metals, most plastics, glass, papers, and painted surfaces.

Product Construction

3M™ 93005LE is a 50µ Double Coated Polyester Tape featuring 300LSE adhesive and two Polycoated Kraft Release Liners.

Layer	Type	Thickness	
Release Liner 1	Polycoated Kraft	107 µ	4.2 mils
Adhesive - Faceside	300LSE Acrylic	19 µ	0.75 mils
Polyester Film	Transparent	12 µ	0.50 mils
Adhesive - Backside	300LSE Acrylic	19 µ	0.75 mils
Release Liner 2	Polycoated Kraft	157 µ	6.2 mils
Total Thickness: (including liners)		314 µ	12.4 mils
Total Thickness (without liners)		50 µ	1.97 mils

Notes: All tolerances +/- 10%

Typical Performance

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Property	Substrate	Dwell/Rate	Value	Units	Value	Units
Faceside Adhesive Peel Adhesion @ 180° ASTM D3330	 Stainless Steel Stainless Steel	 20 min @ RT 72 hrs @ RT	 0.618 0.790	 N/mm N/mm	 56.5 72.2	 oz/in oz/in
Backside Adhesive Peel Adhesion @ 180° ASTM D3330	 Stainless Steel Stainless Steel	 20 min @ RT 72 hrs @ RT	 0.770 0.824	 N/mm N/mm	 70.4 75.3	 oz/in oz/in
	ABS Polypropylene HDPE	72 hrs @ RT 72 hrs @ RT 72 hrs @ RT	0.619 0.774 0.376	N/mm N/mm N/mm	56.6 70.7 34.4	oz/in oz/in oz/in
Dynamic Shear ASTM D1002	Stainless Steel	10mm/min	1.084	N/mm2	157.2	psi
Tensile Strength ASTM D897	Stainless Steel	10mm/min	1.099	N/mm2	159.4	psi
Impact Shear Strength ASTM D950	25x25mm Puck	Pendulum Impact	1.545	J		

Notes: Adhesion is by ASTM D3330 method with exceptions as noted
Stainless Steel substrate unless otherwise noted
Adhesive backer is 2 mil Polyester Film

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For Additional Information

To request additional product information or to arrange for sales assistance, call 3M Technical Service at 651-736-8205. Address correspondence to: 3M Industrial Adhesives and Tapes Division, 3M Center, Building 230-2E-10, St. Paul, MN 55144-1000.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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