



**Technical Data Sheet**  
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## **Dymo Vinyl Embossing tape (3D)**

The product consists of an ink-coated embossable PVC film, laminated to a polyethylene carrier with an acrylic adhesive. The tape is available in 9mm in mat or glossy finish and in a range of colors and roll lengths.

<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Test method</b>	
<b>1. General</b>				
- Thickness tape	Micron	305 ± 15	Micrometer	
- Thickness liner	Micron	60 ± 6		
<b>2. Adhesive properties</b>				
		<b>Dwell</b>		
		<b>20 min</b>	<b>24 hrs</b>	
- to stainless steel	N/25mm	23	36	PSTC-1
- to glass		32	46	
- to PVC		17	36	
- to textured ABS		21	26	
- to powder coated steel		10	13	
- to wood		17	27	
- to polypropylene film matt		1	2	
- to polypropylene film glossy		1	2	
- to polyethylene		1	1	
- to Lever Arch File		4	4	
- to steel computer casing	10	13		
- shear	Minutes	<b>Dwell 10 min</b> 1440		Sheartester 12mmx12mm
<i>Dwell denotes the contact time between label and surface</i>				
<b>3. Chemical resistance of text printed in embossing tool</b>				
- Eurosuper	30x	No visible effect	Crockmeter, 900g weight/arm	
- Diesel	30x	No visible effect		
- Isopropylalcohol	30x	No visible effect		
- Ethanol	30x	No visible effect		
- Ethyl acetate	30x	Moderate print removal		
- Skydrol* LD-4 (hydraulic engine oil)	30x	No visible effect		

<ul style="list-style-type: none"> <li>- Sabesto** automotive brake fluid cleaner</li> <li>- Water</li> </ul> <p style="text-align: center;"><b>Abrasion resistance of text Printed in embossing tool</b></p> <ul style="list-style-type: none"> <li>- Pencil erasure</li> <li>- Polystyrene pin</li> <li>- Sandpaper</li> </ul>	<p>30x</p> <p>30x</p> <p>30x</p> <p>30x</p> <p>30x</p>	<p>No visible effect</p> <p>No visible effect</p> <p>No visible effect</p> <p>No visible effect</p> <p>No visible effect</p>	
<p><b>4. UV light stability of label</b></p> <ul style="list-style-type: none"> <li>- real life test</li> </ul>		<p>No visible effect on text and background</p>	
<p><b>5. Temperature stability</b></p> <ul style="list-style-type: none"> <li>- Application temperature</li> <li>- Service temperature</li> </ul> <p>30 days in consumer freezer 5 years at 20°C</p>	<p>°C</p>	<p>Room temperature</p> <p>-20° to 60°C</p> <p>No visible effect No visible effect</p>	
<p><b>6. Humidity resistance of applied label</b></p> <ul style="list-style-type: none"> <li>- 30 days at 40°C, 95 % R.H. (on alu panel)</li> </ul>		<p>To be done</p>	
<p><b>7. Weatherability in QUV</b></p> <ul style="list-style-type: none"> <li>- 30 days at 60°C (on alu panel)</li> </ul>		<p>To be done</p>	
<p><b>8. Shelf life of tape</b></p> <ul style="list-style-type: none"> <li>- 1 year at 5-25°C and 40-80% relative humidity in its original packaging</li> </ul>			

**\*Skydrol is a registred trademark from Solutia & \*\* Sabesto is a registred trademark from Wurth**  
 Scratch & Solvent resistance : The printed labels are subjected to different scratching sources and chemicals for a fixed number of cycles with a finger weight of 900g.

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