3M White Metallized Polypropylene Label Products FP032302 • FP032302 • FP032305

Product Description	3M TM White Metallized Polypropylene Label Products FP032302, FP032302W and FP032305 are a white opaque material that offers excellent durability and opacity. These label products utilize 3M TM Adhesive P1655 OW, which is a high performance white permanent tackified acrylic adhesive designed for use in demanding environments, including automotive applications. This adhesive offers excellent opacity and adhesion to a wide variety of substrates.					
Construction	Product Number	Facestock	Adhesive	Liner		
	3M label product FP032302	.0023 in. White Metallized Polypropylene TC2S	P1655 OW 1.1 mils	50# SC 3.1 mil semi-bleached super calendered kraft sheet		
	3M label product FP032302W	.0023 in. White Metallized Polypropylene TC2S	P1655 OW 1.1 mils	50# SC 3.1 mil semi-bleached super calendered kraft sheet		
	3M label product FP032305	.0023 in. White Metallized Polypropylene TC2S	P1655 OW 1.1 mils	90# Polyctd. 7.0 mil bleached kraft sheet polyethylene coated on two side		
Features	 (Calipers are nominal values) Meets CONEG requirements. Adhesive dry ingredients are listed by FDA as indirect food contact additives when word in feed perdensing with minimum expertensity for expression. See 21 CED 175-105. 					
	 used in food packaging with minimum opportunity for exposure. See 21 CFR 175.105 Liner for 3M label product FP032302 and FP032302W is designed for high-speed di cutting and matrix stripping. Not recommended for sheet on press applications. 					
	• Liner for 3M label product FP032305 is designed for the ultimate in layflat. The backside of this liner is <u>not</u> printable.					
Application Ideas	Cover-up labels, any application requiring extra opacity.					
	• Automotive underhood.					
	• Harsh environn					

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Typical Physical Properties

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

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 1.1 mil of adhesive on a polished stainless steel panel.

Peel Adhesion	4.5 lbs./in. (785 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample	
Loop Tack	2.5 lbs./in. (435 N/m)	TLMI Method, 12"/min., 1" wide sample	
Shear	2 hours	urs TLMI Method, 1 in ² x 1000g	
Adhesive Coat Weight	1.95 to 2.25 g/100 in.2	TM-2279	
Release Range	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.	
Service Temperature	-40°F to 140°F (-40°C to 60°C)		
Application Temperature	40°F to 120°F (5°C to 49°C)		
Convertability	In order to maximize the benefits of 3M [™] High Opacity White Acrylic Adhesive P1655, thicker calipers are utilized for a variety of surfaces. Its higher caliper, while desirable for the end use applications, may require extra care during processing Please refer to the die cutting/converting section of this data page or the "Guide to Converting and Handling Label Products" technical bulletin for additional information.		

Application Techniques	Recommended substrates:Painted metal (except powder coats)Low surface energy plasticsStainless steel	Cast aluminumGlass filled polypropyleneTalc filled polypropylene			
	For maximum bond strength, surface should be clean and dry. A typical cleaning solvent is heptane or isopropyl alcohol. Note: Consult the manufacturer's MSDS for proper handling and storage of solvents. For best conditions, application surface should be at room temperature or higher. Low temperature surfaces (below 10°F [-12°C]) can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds are achieved through increased rub down pressure.				
Printing	• 3M TM White Metallized Polypropylene Label Products FP032302, FP032302W and FP032305 are topcoated to accept most film ink systems.				
	Please be aware that our current production a primarily qualified for printers who use flexe transfer printing processes. 3M has neither d printing by digital inkjet processes, nor enga any special measures in manufacturing or ha recommending these products for printing by	ographic, screen printing, and thermal lone profile work with these products for aged in any lot variation studies, nor taken andling of these products with the intent of			
Die Cutting / Converting	8				

3M[™] White Metallized Polypropylene Label Products FP032302 • FP032302W • FP032305

Packaging	Finished labels should be stored in plastic bags.		
Storage	Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.		
Shelf Life	If stored under proper conditions, product retains its performance and properties for two years from date of manufacture.		
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.		
Product Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.		
Warranty, Limited Remedy, and Disclaimer	Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.		
Limitation of Liability	Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.		
	This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards		



Industrial Adhesives and Tapes Division Converter Markets

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