Technical data sheet



Product:	5490, 5491
Manufacturer:	3M DEUTSCHLAND GMBH
Product group:	KLEBEBAND
Article group:	EINSEITIG
Download:	01.07.2025

5490/5491 PTFE EXTRUDED FILM TAPE

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3M PTFE Extruded Film Tape 5490·5491

Product Description	3M [™] PTFE Extruded Film Tape 5490 and 5491 offers an extremely low coefficient o friction which, in combination with a pressure sensitive silicone adhesive, creates a smooth, non-stick surface over a variety of substrates to assist in the movement of web materials in many types of roll-wrap lay flat applications.					
Product Construction	Backing	Adhesive	Color	Standard Roll Length		
	Extruded PTFE (polytetrafluoroethylene)	Silicone	Brown	36 yds. (32.9 m)		
	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. ASTM Test Method					
	3M tape 5490 Adhesion to Steel: Tensile Strength at Break: Elongation at Break: Backing Thickness: Total Tape Thickness: Temperature Use Range:	17 lbs./in 170% 2.0 mils (3.7 mils (D-3330 D-3759 D-3759 D-3652 D-3652		
	3M tape 5491 Adhesion to Steel: Tensile Strength at Break: Elongation at Break: Backing Thickness: Total Tape Thickness: Temperature Use Range:	42 lbs./in. 260% 5.0 mils (6.7 mils (D-3330 D-3759 D-3759 D-3652 D-3652		
Features	 Extruded PTFE film tapes lie flatter than typical skived PTFE film tapes, resists curling during unwind and provide an exceptionally smooth surface when applied. Non-stick PTFE film provides an exceptionally slick surface for easy clean-up. Thicker backing helps extend the service life, compared to thinner versions, when subjected to abrasion or wear. Provides excellent chemical resistance except to organic solvents. Note: The silicone adhesive will be attacked by commercial organic solvents and so are not recommended for application requiring organic resistance. Silicone adhesive provides clean removal from a variety of surfaces. 					

3MTM PTFE Extruded Film Tape 5490.5491

 Easy-release surface by wrapping rollers, plates, belts, etc. where build-up of sticky materials and inks can occur, minimizing clean-up. Chemical resistant surface for sealing and masking. Low coefficient of friction surface on rollers, formers, etc. to facilitate web movement. High strength and abrasion resistance reduce friction between surfaces, minimizing rattle and machinery noise. Mold release for composite or metal bonding. Wide temperature range for performance on or near heated machinery and equipment. CAUTION: When PTFE film tape is exposed to temperatures above 600°F (316°C), small quantities of hazardous vapors may be released. INHALATION OF THESE VAPORS MAY BE HARMFUL OR MAY CAUSE RESPIRATORY TRACT IRRITATION. Do not heat or expose PTFE film tape to temperatures above 600°F (316°C). 		
Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.		
To obtain best performance, use this product within 24 months from date of manufacture.		
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