3M PTFE Extruded Film Tape 5490 • 5491

Technical Data				March, 2014	
Product Description	3M [™] PTFE Extruded Film Tapes have a film backing with a silicone adhesive.				
Product Construction	Backing	Adhesive	Color	Standard Roll Lengt	
	Extruded PTFE (polytetrafluoroethylene)	Silicone	Gray	36 yds. (32.9 m)	
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.				
				ASTM Test Method	
	3M™ PTFE Extruded Tape 5490				
	Adhesion to Steel:	27 oz./in. width (29 N/100 mm)		D-3330	
	Tensile Strength:	22 lbs./in. width (385 N/100 mm)		D-3759	
	Elongation at Break:	150%		D-3759	
	Backing Thickness:	2.0 mils (0.05 mm)		D-3652	
	Total Tape Thickness:	3.7 mils (0.09 mm)		D-3652	
	Temperature Use Range: -65° to 500°F (-54° to 260°C)				
	3M™ PTFE Extruded Tape 5491				
	Adhesion to Steel:	35 oz./in. width (38 N/100 mm)		D-3330	
	Tensile Strength:	40 lbs./in. width (700 N/100 mm)		D-3759	
	Elongation at Break:	200%		D-3759	
	Backing Thickness:	5.0 mils (0.13 mm)		D-3652	
	Total Tape Thickness:	6.7 mils (0.17 mm)		D-3652	
	Temperature Use Range:	-65° to 500°F (-54° to 260°C)			
Features	• Extruded, calendered film tapes that resist curling during unwind and provide an exceptionally smooth surface when applied.				
	• Extruded PTFE film tapes lie flatter than typical skived PTFE film tapes.				
	• 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 is not recommended for applications requiring organic resistance.				
	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).				

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Application Ideas	• Easy-release surface on rollers, plates, belts, etc. where build-up of sticky materials and inks can occur.			
	• Low coefficient of friction surface on rollers, formers, etc. to facilitate web movement.			
	 Chemical resistant surface for sealing and masking. 			
	• Wrapping rubber nip rollers on hot polyethylene extrusion machines.			
Storage	Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.			
Shelf Life	To obtain best performance, use this product within 24 months from date of manufacture.			
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	([SO 9001:2000)			
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