

TECHNICAL BULLETIN: PTFE SKIVED TAPE

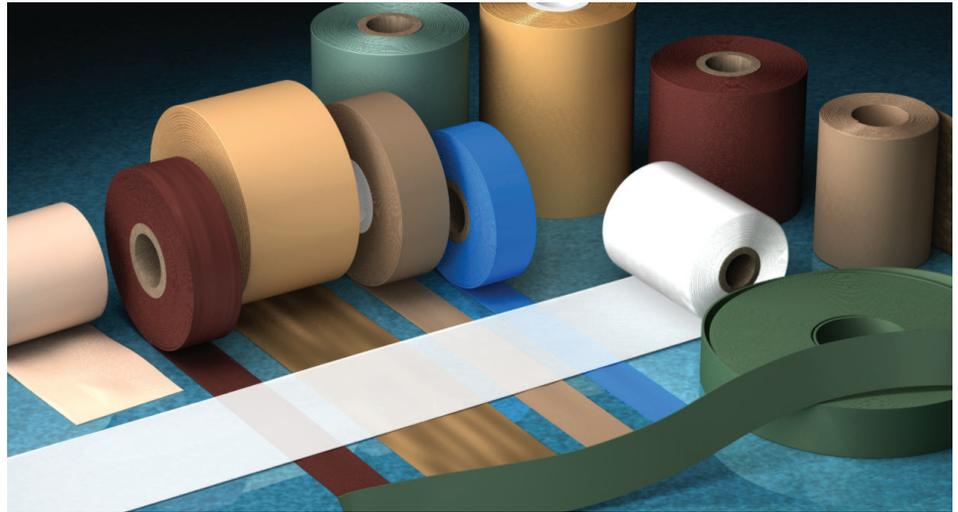
UNETCHED
& ETCHED

IPM-TEK has the know-how to make the best quality skived PTFE products on the market today. Our skived material can be produced from 0.002" up to 0.250" thick, in widths from 0.5" up to 60", made with the most up-to-date skiving technologies, and premium selection of raw materials. Our skived tapes can also be made to the standards of the Aerospace and Electronics Industries.

Available in G400 (virgin PTFE), G200 (PTFE), and filled PTFE compounds, such as, bronze carbon, glass fiber, or other special materials, we have a Skived Tape to fit your application. The special fillers and the technology used to process etch compounded tapes can enhance certain properties, and lower the coefficient of friction, increase hardness, wear strength, and high temperature resistance, increase pressure resistance, and wear resistance (longevity), resulting in lowered operating costs.

IPM-TEK produces Skived tapes that are Etched or Unetched. Skived Tapes that have undergone the etching treatment process can adhere to adhesives, allowing them to be bonded to plastic, metal and rubber surfaces. The etching process will turn the treated surface of the PTFE to a Brown or Burgundy color.

Skived Tape is commonly used in, Machines Centers, Drilling Machines, Lathes, Saws, Skids, Milling Machines, Grinding Machines, Bridge Supports, Construction Engineering, and Maintenance Applications.



G400 (Virgin PTFE)

Property	Unit	Method	Typical Value	
			Extruded	Molded
Density	g/cm3	ASTM D792	2.14 - 2.18	
Tensile Strength	N/mm2	ASTM D4894	≥ 20	≥ 24
Elongation at Break	%	ASTM D4894	≥ 200	≥ 250
Compressive Strength at 1% Deformation	N/mm2	ASTM D695	4 - 5	
Coefficient of Friction (Dynamic)	-	ASTM D1894	0.06	
Service Temperature (Min - Max)	°C (°F)	-	-200 to +260	(-328 to +500)
Dielectric Strength in Air	kV/mm	ASTM D149	≥ 20	≥ 40

G471 (PTFE)

Property	Unit	Method	Typical Value	
			Extruded	Molded
Density	g/cm ³	ASTM D792	2.13 - 2.20	
Tensile Strength	N/mm ²	ASTM D1708	≥ 13	≥ 13
Elongation at Break	%	ASTM D1708	≥ 100	≥ 150
Compressive Strength at 1% Deformation	N/mm ²	ASTM D695	2 - 4	
Coefficient of Friction (Dynamic)	-	ASTM D1894	0.06	
Service Temperature (Min - Max)	°C (°F)	-	-200 to +260	(-328 to +500)

G200 - Skived Tape

Thickness	Tolerance
0.025"	+ 0.0014"
0.031" (1/32")	+ 0.0015"
0.062" (1/16")	+ 0.0039"
0.093" (3/32")	+ 0.0079"
0.125" (1/8")	+ 0.0120"
0.187" (3/16")	+ 0.0160"
0.250" (1/4")	+ 0.0200"

G400 (Virgin PTFE) - Skived Tape

Thickness	Tolerance	Thickness	Tolerance
0.002"	+ 0.0004"	0.025"	+ 0.0014"
0.003"	+ 0.0004"	0.031" (1/32")	+ 0.0015"
0.004"	+ 0.0004"	0.062" (1/16")	+ 0.0039"
0.005"	+ 0.0004"	0.093" (3/32")	+ 0.0079"
0.008"	+ 0.0007"	0.125" (1/8")	+ 0.0120"
0.010"	+ 0.0008"	0.187" (3/16")	+ 0.0160"
0.015"	+ 0.0012"	0.250" (1/4")	+ 0.0200"
0.020"	+ 0.0013"		

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice. Deviations from the values indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.

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