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FORMULAE FOR USERS OF WOVEN POLYPROPYLENE FABRICS

FORMULAE

CONVERSIONS

DENIER	Fabric weight (g/m²) x 9000					
	{warp density (tapes/10 cm) + weft density (tapes/10 cm)} 10					
FABRIC WEIGHT (g/m²)	Denier {warp density (tapes/10cm) + weft density (tapes/10cm)} 10					
[warp & weft same denier]	9000					
FABRIC WEIGHT (g/m²)	<div><div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div><div>warp den x tape density per 10 cm</div><div>900</div></div></div><div>+</div><div><div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div><div>weft den x tape density per 10cm</div><div>900</div></div></div></div><div>1.02</div></div>					
ROLL WEIGHT (kg)	<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div><div>D² π</div><div>4</div></div><div>-</div><div><div>d² π</div><div>4</div></div></div> <div>W d</div>					
	D = OD d = density All figures in meters d = Core W = width Density of WPP in roll form only is 0,66 g/cm³ (otherwise 0,91 g/cm³)					
YIELD (m²/kg)	<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>1000</div><div>g/m²</div></div> <div>OR</div> <div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>1</div><div>Thickness (μ) x density (0,91g/cm³)</div></div>		Tapes/10cm	to	Tapes/inch	tapes/10cm / 3.93
THICKNESS (μ)	<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>Weight of fabric (g/m²)</div><div>SG of PP (0,91g/cm³)</div></div>		\$/m²	to	\$/yd²	\$/m² / 1.19599
	BAG WEIGHT (g)	Cut-off length (m) x flat width (m) x 2 x fabric weight (g/m²)		\$/m²	to	\$/ft²
		\$/m²	to	\$/msi	\$/m² / 1.550	
			\$/kg	to	\$/lb	\$/kg / 2.2046
			g/m²	to	#/ream	g/m² / 1.627
			kg	to	lb	kg / 2.2046
			μ	to	in	μ / 25.4
			mm	to	in	mm / 25.4
			g	to	oz	g / 28.34952
			g/m²	to	oz/yd²	g/m² / 33.9
			\$/m²	to	\$/lb	(\$/m² x yield)/2.2046
			\$/lm	to	\$/lb	(\$/m x yield)/(widthx2.2046)
			m²/kg	to	in²/lb	m²/kg*704

NOTES:

- Density and specific gravity are one and the same
- The standard density of polypropylene is 0.91g/cm³. Woven polypropylene when wound on a roll has a density (SG) of *approximately* 0.66 g/cm³ due to the weave structure.
- All the conversion formulae are metric and therefore only metric values can be entered.

11-Sep-06 C:/Bus/formulae

Every effort has been made to ensure the correctness of these formulae but Rhopack, LLC makes no guarantee as to their accuracy.