

# DeWAL DW 400

Ultra High Molecular Weight Polyethylene

DeWAL Industries

Message:

DW 400 is a skived Ultra High Molecular Weight Polyethylene film (UHMW), available in both black and natural, that has been put through a densification process to enhance the physical properties and surface smoothness. DW 400 has extremely high abrasion resistance, exceeding the abrasion resistance of steel in some cases. By adding the densification to the process, the DW 400 has increased tensile values as well as increased toughness. UHMW offers a broad range of chemical resistance and a low coefficient of friction making it an extremely versatile engineering material for many severe service applications. DW 400 can be used in chemical, fuel and hydraulic hoses, linings for chutes to decrease friction and wear as well as a great material used in conjunction with rubber belting surfaces.

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Surface Finish		
	Good Toughness		
	Good Wear Resistance		
	High Density		
	High Tensile Strength		
	Low Friction		
	Ultra High Molecular Weight		
Uses	Abrasion Resistant Liners		
	Belts/Belt Repair		
	Hose		
	Industrial Applications		
Appearance	Black		
	Natural Color		
Forms	Film		
Physical	Nominal Value	Unit	
Density	0.930	g/cm <sup>3</sup>	
Water Absorption (Saturation)	0.010	%	
Thickness	102 to 203	nm	
Core ID	7.62	cm	
Core Type	Upon Request		
Maximum Roll OD	356	mm	
Width <sup>1</sup>	< 610	mm	
Films	Nominal Value	Unit	Test Method
Tensile Strength - MD (Yield)	145	MPa	ASTM D882
Tensile Elongation - MD (Break)	> 250	%	ASTM D882

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	95.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	39	kV/mm	ASTM D149
Dissipation Factor	4.0E-4		ASTM D150
NOTE			

1. Metric Widths Available upon request

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#### Recommended distributors for this material

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