



# DeWAL® DW402UV

## UHMW-PE

DW402UV is a skived Ultra High Molecular Weight Polyethylene (UHMW) material that has been enhanced with a filler to allow the material to function in environments where UV is present.

UHMW-PE has extremely high abrasion resistance, exceeding the abrasion resistance of steel. This, coupled with broad chemical resistance and low coefficient of friction, makes UHMW an extremely versatile engineering material for many severe service applications. Examples of such applications include inner and outer surfaces for potable water, chemical, fuel, and hydraulic hoses, bottom surfaces for skis and snow boards, as well as linings for chutes to decrease friction and wear. Automotive weather stripping is also an application.

TECHNICAL DATA	TEST METHOD	RESULTS	METRIC RESULTS
Base Film		UHMW-PE UV Resistant	
Specific Gravity/Density		0.93 g/cc	
Tensile Strength	ASTM D 882	6,000 psi	41.36 MPa
Elongation	ASTM D 882	300% min	
Dielectric Strength	ASTM D 149	1,000 volts/mil	
Dielectric Constant	ASTM D 150	2.3	
Dissipation Factor	ASTM D 150	0.0004	
Deformation	2000 PSI,6Hr, 122°F	6-8%	
Heat Distortion Temperature	ISO R75 Method A	203°F	95°C
Water Absorption(%)		0.01	
Thermal Conductivity(73F)(BTUin)/(ft²hrF)		0.44	
Deformation		1.1 x 10 <sup>-4</sup>	

PACKAGING SPECIFICATIONS	ENGLISH	METRIC
Thickness	3 to 93 mil	0.0762 to 2.3622 mm
Width	.25 to 55 in.	0.635 to 139.7 cm
Max Roll O.D.	14 in.	35.56 cm
Core Diameter	3 in.	7.62 cm

All metric conversions are approximate.  
Additional technical information is available.  
Typical values should not be used for specification limits.