

DeWAL DW 402P

Ultra High Molecular Weight Polyethylene

DeWAL Industries

Message:

D/W 402P is a microporous film produced from Ultra High Molecular Weight Polyethylene (UHMW) . The process yields a material with highly uniform pore structure in the X, Y and Z directions.

D/W 402P has an open cell (tortuous path) structure with a void volume of 30 % to 50%. The material can be rendered hydrophilic through surface treatments and by plasma surface modification. Application areas include gas and liquid filtration, medical diagnostic test kits, wicks, low dielectric constant wrap for microwave cables, batteries and other applications where porosity, inertness, toughness and accuracy of gauge are important.

General Information			
Features	Good Toughness		
	Hydrophilic		
	Porous		
	Ultra High Molecular Weight		
Uses	Batteries		
	Filtration Media		
	Medical/Healthcare Applications		
Forms	Film		
Physical	Nominal Value	Unit	
Density	0.550 to 0.750	g/cm ³	
Thickness	0.1 to 3.2	µm	
Maximum Roll OD	330	mm	
Pore Size Distribution - PMI	5.0 to 50.0	µm	
Void Volume	25	%	
Width ¹	6.35 to 711	mm	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	95.0	°C	ISO 75-2/A
NOTE			
1.	increments of 1/16"		

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