## Sound Attenuation Foam



Polydamp® Type D Acoustical Foam, (PAF) is an acoustical grade, open cell, flexible ether based urethane foam designed to give maximum sound absorption for a given thickness. It has excellent resistance to heat, moisture and chemicals. All applications use 1.5" foam as standard.



## Foam Characteristics Sound Absorption: Nominal values of random incidence sound absorption coefficient per ASTM C384-77 for Plain/Tuffylm

## Frequency (Hz)

Foam Thickness	125	250	500	1000	2000	4000
(1.5 in) 38.1 mm	15/20	27/49	60/96	77/93	90/82	98/67
(2.0 in) 50.8 mm	20/30	40/66	90/98	100/96	96/85	100/75

	Test Standard	U.S. Standard	
Density, Nominal: (lb/ft3-kg/m3)	ASTM-D-3574-91	1.85	
Tensile Strength: (PSI-KPa)	ASTM-D-3574-91	12	
Elongation, %	ASTM-D-3574-91	120	
Tear Resistance: (lb/in - N/M)	ASTM-D-3574-91	1.3	
IFD: (PSI - KN/M2)	ASTM-D-3574-91	30	
Compression Set (50%): %	ASTM-D-3574-91	10	
Air Permeability (Tested at 1" thickness): (Rayles/M)	ASTM C-522		
Thermal Conductivity			
(BTU/hr. ft2, °F/in.)	ASTM C-177	0.25	

Service Temperature		
Continuous	-45°F (-43°C) TO 212°F (100°C)	
Intermittent	250°F (121°C)	
Flame Resistance		
UL94	HF-1	
FAR.853(B)	PASS	
SAEJ-369(B)	PASS	
MVSS-302	PASS	
DIN	PASS	
Humidity Resistance		
Excellent; no significant decrease in hrs. of steam autoclave at 250°F (12	0 0	
Chemical Resistance		
Excellent - no significant change in s common solvents, alkalies, acids, an	9	
Estimated Service Life:		
Min. 10 years at 80F (27°C) and 95%	R.H.	

## Adhesive Characteristics

P4 is a high performance unsupported acrylic pressure sensitive adhesive exhibiting aggressive tack, high peel and shear, and good heat resistance. In addition, it has good chemical and plasticizer resistance as well as excellent long term aging and the ability to withstand environmental extremes.

Adhesive Thickness (Nominal)	0.004"		
Color of Adhesive	Water Clear		
Release Liner	76 lb Polycoated bleached kraft paper		
Service Temperature	-40°F +200°F		