

DIMFAB 280 Isolation Material



DIMFAB 280 pads are manufactured from a custom blended compound which meets the qualification requirements for "Distributed Isolation Material" (DIM) by the US Department of the Navy, and Military specification MIL-D-24709. DIMFAB 280 pads also meet or exceed the environmental specifications including salt spray, temperature storage, oil immersion, fungus and ozone.



Since 1988, DIMFAB ribbed isolation material has been a proven solution where structure-borne noise, vibration and shock isolation is required on surface ships and in submarines. The material is produced in 18" x 18" sheets and can be easily cut into predetermined shapes.



Physical Properties

Distributed Isolation Material (DIM) conforms to Military Specification MIL-D-24709 (SH) 4 November 1988, Distributed Isolation Material Type R-50-21/64 and Interim Procurement Specification DIM Handbook (September 1, 1982). Appendix "E" - Pages E1 to E5 Inclusive NAVSEA S9078-AA-HBK-010/DIM.

Physical Property	ASTM Standard	Specification Requirement
Original		
Durometer (Shore A) D-2240	40 - 50	45
Tensile (psi)	D-412 - Die C	1800 Min
Ultimate Elongation (%)	D-412 - Die C	350 Min
Specific Gravity	D-792	1.21 ± 0.02
70 Hrs @ 212°F Air Age	D-573	
Tensile (psi)	D-412 - Die C	1700 Min
Ultimate Elongation (%)	D-412 - Die C	300 Min
46 Hrs @ 158°F Oil Immersion (ASTM #1 Oil)	D-471	
Tensile (psi)	D-412 - Die C	1700 Min
Ultimate Elongation (%)	D-412 - Die C	300 Min
Volume Change (%)	-10 +10	-5.4
Compressive Strength		
At 10,000 psi load		Shall Not Rupture
Deflection		
At 50 psi load (Inches)		0.065 Max
At 75 psi load (Inches)		0.075 Max
Resonant Frequency		
At 25 psi (Hertz)		27 Max
At 50 psi (Hertz)		22 Max
At 50 psi (Hertz) After Compressive Strength		19.8 ± 1.0
Drift		
At 50 psi after 336 Hours (Inches)		0.008 Max
Cold Compression Set (%)	D-1229	
94 ± 1/2 Hour at 30 ± 2°F		35.0 - Max
Ozone Resistance	D-1149	
166 Hrs/1 PPM Ozone (100°F)		Rating - 0

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