



INTEGRITY DEFENSE ARMOR

5446 1ST STREET, SUITE A, KATY, TX 77493

RM-EPE (EXPANDED POLYETHYLENE) TECHNICAL DATA SHEET

RM-EPE is an Expanded PolyEthylene (EPE): A low density, semi-rigid, closed cell **foam** manufactured under U.S. Coast Guard guidelines and regulations and confirms to UL standards. Veterans MFG's RM-EPE is utilized in the U.S. Coast Guard Certified (#160.064/8016/0) APFD (*Armored Personal Floatation Device*).

- Veterans MFG only manufactures EPE according to UL, USCG and ISO9001 standards.

Physical Property	Test Method	Unit	EPE
Average Density	ASTM-D3575	pcd	1.5
Comp Strength	ASTM-D3575		
@ 25%		psi	11
@ 50%		psi	19
@ 75%		psi	49
Tensile Strength	ASTM-D3575	%	45
Tensile Elongation	ASTM-D3575	lbs/in	30
Tear Strength	ASTM-D3575	%	16
Comp Set @ 25%	ASTM-D3575	%	4
Comp Set @ 50%	ASTM-D3575	%	13
Buoyancy	ASTM-D3575	pcf	59.5
Thermal Conductivity	ASTM-C177	(K) BTU-in/ ft-hr-f	0.24
Thermal Resistance	ASTM-C178	(R) @ 70 F	4.2
Service Temp	ASTM-D3575	F	160
Water Absorption	ASTM-D3575	%	-1
Comp Creep	ASTM-D3575	1000hr @ 1 psi	3
Flammability	FMVSS-302	<4.0in/min	Pass
Chemical Resist	Various	1 hr exposure	Pass
Fuel Immersion	Coast Guard (CGD-770145) Fuel B	<5% change in volume	Pass

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