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Product Highlights:

- Reduces impact injuries from vehicle rollovers, crashes, and IED explosions
- Can be used as blast-mitigating flooring or interior padding
- Provides thermal and acoustic insulation
- No modification to vehicle interior is needed
- Can withstand multiple impacts without degrading performance
- Easy peel-and-stick installation

For more information on this product, please contact:

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Proteckt™ Energy Absorbing Appliqués

Product Specifications

Property	Test Method	Units	Value
Density	ASTM-D3575	lb/ft ²	0.58lbs ¹
Thermal Conductivity	ASTM-C177	(K)BTU-in/ft ² -hr-°F	0.24 ¹
Thermal Resistance	ASTM-C177	(R)@70°F	3.4 per inch
Service Temp. Range	ASTM-D3575	°F	-22 to 212
Sound transmission loss ²	SAE J1400	db	100 (Hz) 20 400 (Hz) 34 1000 (Hz) 40 4000 (Hz) 52
Noise reduction coefficient	ASTM-C423	NRC	0.15 ¹
Sound absorption average	ASTM-C423	SAA	0.12 ¹
Flammability	FMVSS 302	Pass/Fail	Pass ³ - Self Extinguishing
Compressive Strength @ 75%	ASTM-D3575	psi	(Base EA) 111 ¹
Tensile Strength	ASTM-D3575	psi	(Base EA) 67 ¹
Water Absorbtion	ASTM-D3575	%	~1.0
Dimensions (Thickness)	—	in.	3/4 to 2
Dimensions (WxL)	—	in.	up to 48 x 72
Slip test Surface morphology dependent (blast mat)	ASTM-F1677	Coefficient of friction	Pending
Surface abrasion resistance Taber	ASTM-D1044	% loss	0.84 after 1,000 cycles
Chemical resistance (Oils, water, cleaning agents, CBW)	TARDEC 24 hour immersion	Pass/Fail	Pass
Salt Fog	ASTM B-117	Pass/Fail	Pass ¹
Toxic Gas Generation	BSS 7239	Pass/Fail	Pass ¹
Head impact protection 15mph	FMVSS 201	Head Injury Criterion (HIC)	875 ⁴ 735 ⁵
Side impact 30mph	FMVSS 208	HIC (15ms)	684 ⁶
Floor blast	Stanag 4569	Risk of foot ankle damage	Pass ⁷ TFR 2053N

1. 1 inch thick 2.8 pcf Proteckt
2. 3/8" steel plate with 1 inch thick 2.8 pcf Proteckt
3. Self extinguishing standard Proteckt 3/8 inch thick, 1.5 inch thick High Fire Resistance (HFR) Proteckt
4. Perpendicular impact 1 inch thick 2.8 pcf Proteckt. Headform with Advanced Combat Helmet 15 mph
5. 17.5° down angle impact 1.9" thick 1.8 pcf, second impact 724 HIC. Headform with Advanced Combat Helmet
6. 1.9" thick 1.8 pcf Proteckt test simulation mock up A1P2 BAE FMTV cabin 4 pt belted ATD 50th percentile
7. 1.5" thick 2.8 pcf Proteckt injure level AE1 Δ V 7 (m/s) 180 lb ATD Tibia Force Reduction vs Steel Plate 2053N

