

Thermal and acoustical systems

Wheel Wells - Molded Fiber Composite



Description:

- Needle-punch 100% Polyester Fiber Composite
- High Temperature Polyester Binder System
- Integrated Black Surface with High Strength & Toughness

Applications:

- Light Duty – Passenger car wheel house liner
- Medium Duty – SUV or applications requiring higher part stiffness
- Heavy Duty – Truck applications requiring greatest part toughness and durability

Features and Advantages:

- High Acoustic Performance and Functionality to Reduce Tire/Road Noise- See Attached Random Absorption Graph
- Low Impact Noise Generation to Reduce Noise from Water Splash and Gravel - See Attached APAMAT Noise Graph
- Product must survive physical and environmental exposures in wheel well application – see table below
- Reduced Weight
- Reduced Noise Levels for Exterior and Interior Noise
- Improved Comfort from Stone Impact and Water Splash
- Reduced Number of Components



This is a picture of Lydall's wheel liner after 100% completion of vehicle level durability testing of a heavy-duty truck



This is a picture of a production wheel well part placed in the check-fixture prior to packaging for shipment.

Standard	Standard Name	UOM	Light Duty (900gsm)		Medium Duty (1200gsm)		Heavy Duty (1400gsm)	
ASTM D5034 / ISO 9073-18	Tensile Strength	N/cm	MD	CD	MD	CD	MD	CD
			94	143	286	352	320	468
ASTM D5733 / ISO 9073-4	Tear Strength	Newtons	MD	CD	MD	CD	MD	CD
			170	78	226	152	446	177
ASTM D790 / ISO 178	Bending Stiffness	Newtons @ 10mm deflection	7.5		15.8		26.2	
SAE J913 / ISO 9073-6	Water Wicking	mm	<5		<5		<5	
SAE J369 / ISO3795	Flammability	mm/min.	SE		SE		SE	
SAE J400 / ISO 20567-1	Gravelometer - Ambient - -30°C		No Holes, Damage, Hairiness, or Material Degradation					
ASTM D3884 / ISO5470-1	Taber Abrasion - H38 wheels - 1000g weight		1000 cycles minimum - no surface peeling - no loose fiber - no wear through the tire side layer that causes the next layer to be visible					

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All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. Since industry practices vary, we make no warranty, express or implied, concerning their use, nor do we accept responsibility for any misapplications of these products, or their use under any conditions

TS16949 and ISO 14001 Certified

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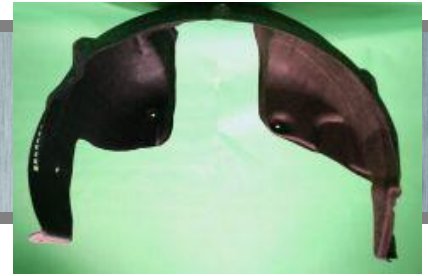
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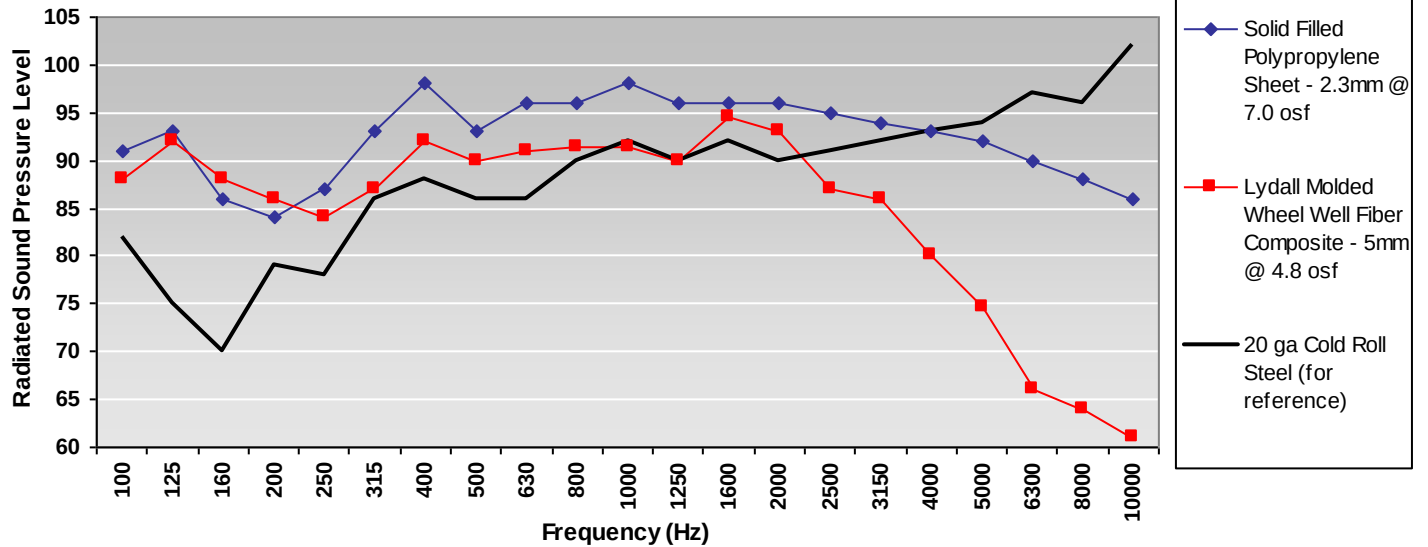
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Lydall APAMAT II Sound Level Results

(Panels Tested without Steel Base Plate - Ball Bearings Impacting Panels Directly)
Test Conducted at Roush Industries



Acoustic Wheel House Splash Shields

Random Incidence Sound Absorption Coefficient (ASTM C423) - 10 mm Air Gap
Measured by Kolano & Saha

