

Sound Insulation and Protection

Acoustic Components Made From OBoSonic®



Polyurethane Molded Acoustical Foam Parts Made From OBoSonic®

A vacation for the ears: the innovative solution for sound protection and sound insulation

OBoSonic features modern acoustic solutions made from polyurethane. They are primarily used in the automotive industry. Did you know that every car made by a German manufacturer, regardless of where in the world it is produced, contains some kind of foam from Recticel Engineered Foams? OBoSonic is your professional solution for the field of sound insulation.

- Excellent noise absorption and dampening performance
- Temperature resistant from -40°C to 150°C
- Significant reduction in cost and weight compared to conventional materials
- Contours perfectly for snug fit directly on top of engine components, fuel rails / pumps and coil packs
- Class 'A' design surfaces
- Perfect use of space with increased functionality
- Improves passive pedestrian impact protection
- Complies with all relevant fire safety requirements

OBoSonic® Flexible Foam Lines

Mechanical Properties		
Density ASTM D3574-A 3.25 – 8.75 lbf/ft³	ASTM D3574-A	3.25 – 8.75 lbf/ft³
Tensile strength, foam ASTM D3574-E 22 – 44 lbf/in²	ASTM D3574-E	22 – 44 lbf/in²
Elongation at break, foam	ASTM D3574-E	100 – 160 %
Tear resistance, foam	ASTM D3574-F	2.3 – 4.6 lbf/in
Compression Force Deflection (50%)	ASTM D3574-C	6 – 27 kPa
Constant Deflection Compression (50%)	ASTM D3574-D	5 – 15 %





OBoSonic® Integral Skin Foam Lines

Mechanical Properties		
Density	ASTM D3574-A	12.5 – 25 lbf/ft³
Tensile strength, foam	ASTM D3574-E	70 – 200 lbf/in²
Tensile strength, foam	ASTM D5034	35 – 100 lbf/in²
Elongation at break, foam	ASTM D3574-E	60 – 180 %
Tear resistance, foam	ASTM D3574-F	6.5 – 16 lbf/in
Compression Force Deflection (50%)	ASTM D3574-C	35 – 350 kPa
Constant Deflection Compression (50%)	ASTM D3574-D	5 – 20 %
Hardness	ASTM D2240-03	10 – 65 Shore A

OBoSonic Flexible and Integral Skin Foam Lines

Burning Behaviour		
UL 94	Classification V0/HBF	
FMVSS 302	Classification SE	(Self Extinguishing)
DBL 5307	Classification B	(< 100 mm/min)
GMW 3232	Classification DNI	(Does Not Ignite)
ISO 3795	Classification SE	
SAE J369	Classification SE	
TL 1010	Classification SE/NBR	(BR < 50 mm/min)
(ICE 60695-2-10) Glow-wire test	Classification 750 °C (1382 °F)	

Recticel Engineered Foams

Recticel Engineered Foams applies industry-leading knowledge, resources and experience to offer the tailored solutions our customers need to stay ahead. Our unique portfolio of foams and systems – spanning industrial, mobility, consumer & medical care, living & care applications – is one of the most comprehensive in the market. We focus strongly on sustainable innovation and strive to provide answers to societal challenges, including climate protection and conservation of resources.

Our passion for comfort

The key to the success of PU foams is their seemingly endless versatility. They can be tailored to almost any application and we are continually innovating to optimise our product range in line with new demands and ideas. Many everyday consumer goods would be unimaginable without their unique benefits, which include silencing, sealing, filtering, carrying, protecting, supporting and comforting attributes. These can be provided in almost any combination, allowing us to develop solutions and systems with the exact functionalities required by every market we serve.



Find out more
www.recticelengineeredfoams.com

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