

# BISCO<sup>®</sup> Melamine Foam

## MRF-400

BISCO<sup>®</sup> MRF-400 materials are low density melamine foams engineered for outstanding acoustic noise absorption, thermal insulation, or any application requiring very low compression force.

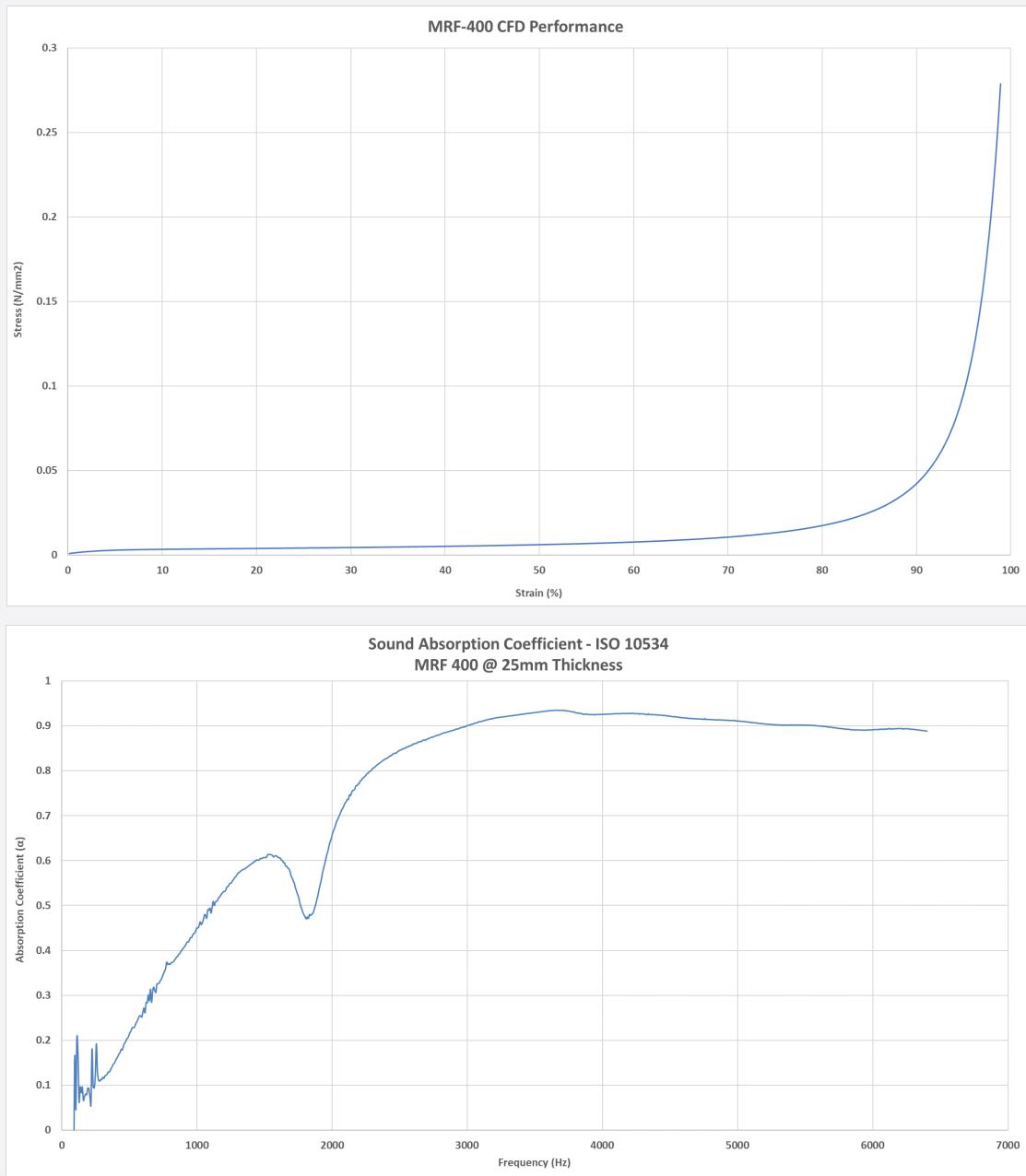
These materials meet global flame, smoke and toxicity (FST) regulations and are available in bun or sheet form.

### Features & Benefits, applicable to all BISCO<sup>®</sup> Melamine Foams:

- Extreme low density (outstanding compressibility)
- Outstanding acoustic noise absorption
- Rated for Flame, Smoke and Toxic gases (FST) standards

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
<b>PHYSICAL</b>			
Color	Visual	Gray	---
Thickness, mm (inches)	Internal	3.125 - 304.8 (0.125 - 12.00)	---
Density, kg/m <sup>3</sup> (lb./ft <sup>3</sup> )	Internal	7 (0.44)	<b>4-10 (0.25-0.63)</b>
Compression Force Deflection, kPa (psi)	ASTM D1056	4.14 (0.6)	
Compression Set, %	ASTM D1056 70°C (158°F) / 22 hrs / 50%	10	
Tensile Strength, kPa (psi)	ISO1798	>90 (13)	
Elongation, %	ASTM D412	>21	
<b>FLAMMABILITY</b>			
Flame Resistance	UL 94	Meets	V-0
Rail Fire Barrier	EN 45545	Meets	HL3
<b>THERMAL</b>			
Thermal Conductivity, W/m °K	DIN EN 12667	0.035	---
Temperature Range, °C (°F)	DIN EN ISO 2578	<b>Max. Application Temperature</b>	
		1000h	220°C (428°F)
		5000h	200°C (392°F)
		20000h	180°C (356°F)
*Remains flexible to -200°C (-328°F)			
Sound Absorption Coefficient	ISO 10534		

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### Notes:

- \*Typical Value- Value is based on historical data. Please note the frequency of testing varies.
- \*\*Specification- Applies to physical properties only, which are based on Rogers' internal benchmark and standard BISCO specification values.
- Additional industry specifications are available as well. All other properties are based on industry standard guidelines.
- Shelf-Life for MRF-400 is five years after date of shipment assuming the following storage conditions:
  - Temp 16-27°C (60-80°F)
  - Humidity 40-50%
  - Storage - no direct sunlight

For more information and to request a sample, please contact our team of experts at [solutions@rogerscorp.com](mailto:solutions@rogerscorp.com)