

Absorba



A product of Rayco Technologies



High Performance Rubber **ABSORBA™**

ABSORBA™ is a series of special high-performance curable rubbers developed by Rayco Technologies Pte Ltd.

ABSORBA™ is a thermoset, Fluorocarbon based material.

ABSORBA™ is designed to efficiently dissipate mechanical energy and functionally withstand wide temperature changes. ABSORBA™ exhibits high mechanical damping and is the ideal solution in the area of suppressing vibration and noise.

ABSORBA™ offers superior performance in most industrial applications where high-demand damping is desired, such as in Data Storage, Automotive, Electronics, etc. In effect, ABSORBA™ provides a new dimension in design with virtually limitless applications.

ABSORBA™ excel excellent shock absorption, vibration isolation and vibration damping characteristics. ABSORBA™ is an excellent absorber and effective acoustic damper, and is widely as anti-vibration feet for audio an electronics devices applications.

ABSORBA™ features

Excellent shock absorption

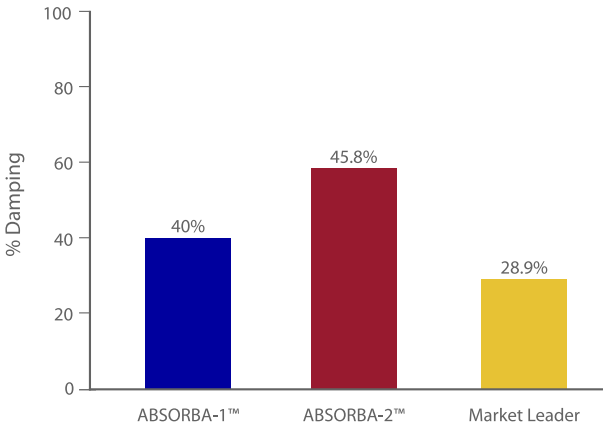
Effective acoustic damper

Good vibration isolation

Low creep

Low resilience

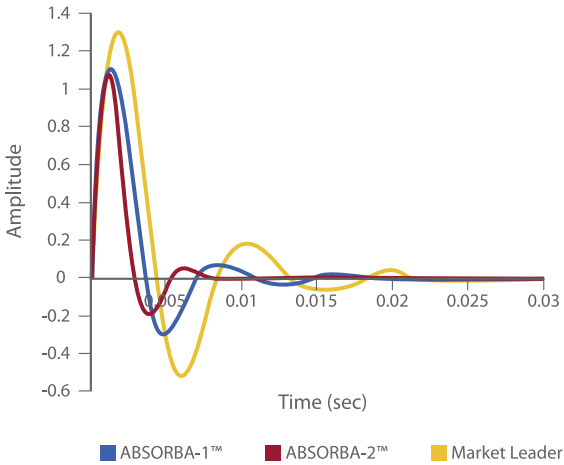
Damping Properties of ABSORBA™



Material	Resonance Frequency (Hz)	Percentage of Damping
ABSORBA-1™	145	40%
ABSORBA-2™	191	45.8%
Market Leader	116	28.9%

SUPERIOR VIBRATION DAMPING

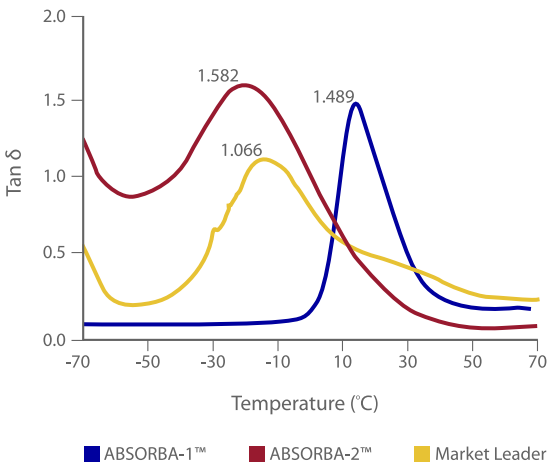
ABSORBA™ exhibits exceptional vibration damping behaviour, as shown by the Signal Decay Curves:



Material	Time to Complete Signal Decay
ABSORBA-1™	0.015 sec
ABSORBA-2™	0.010 sec
Market Leader	0.030 sec

SELECTIVE FUNCTIONAL TEMPERATURES

ABSORBA™ shows extremely large loss behaviour with loss factor ($\tan \delta$) exceeding 1.0 over a wide temperature range.



Material Specifications

Mechanical

Properties	Test Method	Units	Value
Density		g/cm ³	1.86
Hardness (Shore A)	ASTM D2240	-	55
Compression Set (100°C for 168hrs)	ASTM D395	%	12.6
Tensile Strength	ASTM D412	MPa (psi)	7.7 (1117)
Elongation @ Break	ASTM D638	%	251
Tear Strength	ASTM D624	kN/m	11.6
Heat Aging (70°C for 72hrs)	ASTM D573		
Change in Hardness		points	0
Change in Tensile Strength		%	-9.4
Change in Elongation @ Break		%	-15.1
Fluid Resistance (23°C for 70hrs)	ASTM D471		
Hydraulic Oil			
Change in Hardness		points	-0.3
Change in Volume		%	0.9
Kerosene			
Change in Hardness		points	-0.2
Change in Volume		%	-0.3
Diesel			
Change in Hardness		points	-0.2
Change in Volume		%	-0.6
Soap Solution			
Change in Hardness		points	-1
Change in Volume		%	-0.4



The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking the supplies immediately on receipt. The user shall evaluate and determine whether the product is suitable for the intended applications. We reserve the rights to alter product constants within the scope of technical progress or new developments. In no case will Rayco be liable for any special, incidental, or consequential damages based on breach of warranty or contract, negligence, strict tort, or any other theory.

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