



Product Description

ISOLOSS™ HD elastomers exhibit excellent load-bearing strength, compression set resistance and stiffness stability over a broad service temperature range. In addition, these materials offer high internal damping, have excellent resistance to creep and compression, and can be metal-bonded during molding.

TYPICAL PROPERTIES	ISOLOSS HD MATERIALS
Description	Urethane Solid Thermoset
Hardness Type A ASTM D2240 15 sec impact	48
Flammability UL 94 0.15 cm (0.06 in.) thick FMVSS-302	Listed HB Meets at 0.32 cm (0.125 in.)
Compression Load Deflection, kPa (psi) ASTM D575 at 0.51 cm/min (0.2 in./min) 10% 20% 30%	448 (65) 979 (142) 1627 (236)
Compression Set, % ASTM D395 Method B 22 hr at 22°C (72°F) 22 hr at 70°C (158°F)	6.4 7.9
Tensile Strength, kPa (psi) ASTM D412	16,244 (2,356)
Tear Strength, kN/m (lbf/in) ASTM D624	23 (132)
Peak Damping Performance Temperature Range, °C (°F) 10 Hz 100 Hz 1000 Hz	-23 to 3°C (-11 to 38°F) -21 to 13°C (-7 to 55°F) -19 to 27°C (-3 to 80°F)
RoHS Compliant	Yes
Halogen-free per IEC 61249-2-21	Yes

CHEMICAL RESISTANCE	ISOLOSS HD MATERIALS	
ASTM D543 with 7-day immersion	% Wt. Change Initial	% Change After 7 Days
2N Sulfuric Acid	(+) 1.0	0
1N Acetic Acid	(+) 2.7	(+) 0.5
Motor Oil	0	0
Deionized Water	(+) 1.2	(-) 0.1
1% Soap	(+) 1.2	(-) 0.2
Sea Water	(+) 1.1	(-) 0.1
Methanol	(+) 23	(-) 3.3
1N NaoH	(+) 1.1	(-) 0.2
Benzene	(+) 98	(-) 1.1
Hexane	(+) 1.7	(+) 0.6
Diesel Fuel	(+) 3.9	(+) 3.8
Hydraulic Fluid	(+) 0.1	0
Acetone	(+) 89	(-) 3.6
MEK	(+)105	(-) 3.5
ASTM Oil #3 (70C)	0	(+) 0.7
Gasoline	(+) 29.4	(+) 1.2

The above technical information and data should be considered representative or typical only and should not be used for specification purposes.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that Aearo Technologies believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond Aearo Technologies's control and uniquely within user's knowledge and control can affect the use and performance of a Aearo Technologies product in a particular application. Given the variety of factors that can affect the use and performance of an Aearo Technologies product, user is solely responsible for evaluating the Aearo Technologies product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer

Unless an additional warranty is specifically stated on the applicable Aearo Technologies product packaging or product literature, Aearo Technologies warrants that each Aearo Technologies product meets the applicable Aearo Technologies product specification at the time Aearo Technologies ships the product. Aearo Technologies MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the Aearo Technologies product does not conform to this warranty, then the sole and exclusive remedy is, at Aearo Technologies's option, replacement of the Aearo Technologies product or refund of the purchase price.

Limitation of Liability

Except where prohibited by law, Aearo Technologies will not be liable for any loss or damage arising from the Aearo Technologies product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.