



ISOLOSS™ HD Elastomers

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
Description	Urethane Solid Thermoset
Hardness Nominal Type A ASTM D2240 15 Second 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 hours at 22°C (72°F) 22 hours 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

The above technical information and data should be considered representative or typical only and should not be used for specification purposes. *Per IEC 61249-2-21

CHEMICAL RESISTANCE	ISOLOSS HD	
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





Technical Information

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

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