

Noise, vibration and shock control

Isoloss LS - energy control foam

Isoloss LS foams are fine-celled, low compression-set, high density polyurethane foams, offering unique combinations of design features for difficult mechanical energy control problems.

Isoloss LS products exhibit very low compression set and excellent resistance to collapse as well as good shock absorption and vibration isolation performance. They feature low outgassing and good dimensional stability.

Isoloss LS foams provide excellent shock control and cushioning, yet are durable enough for gasketing, padding and sealing applications.

- Low compression set
- High energy absorption
- Effective vibration isolation
- Low outgassing
- High internal strength
- Chemical resistance
- Flame resistance
- Broad service temperature range

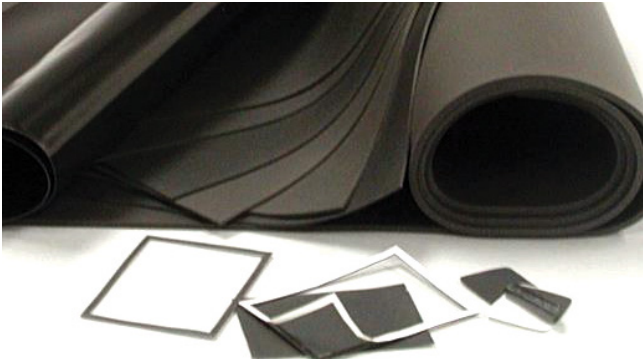
Benefits:

- Solution for difficult mechanical energy control - Isoloss LS materials are fine-celled, low compression set, high density polyurethane foams which offer unique combinations of design features
- Ideal for lightweight vibration isolation applications - performance advantages include low stiffness, high strength and controlled compression characteristics
- Good durability, resilience and high energy absorption - ideal for cushioning and shock applications
- Flexible - available in different grades and dimensions depending on your application requirements.
- Easy to install

Applications:

Isoloss LS is used in many diverse applications, such as:

- Truck and automotive gaskets and seals
- Medical equipment
- Lab, office equipment and computers



Family	Product	Thick (in)	Size (in)	Unit (unless indicated)	Weight (lb/sq ft)
Isoloss LS foams	LS-2503	0.032	54 X 300 ft	ROLL	0.06
	LS-2006	0.062	54 X 300 ft	ROLL	0.1
	LS-2012	0.125	54 X 160 ft	ROLL	0.2
	LS-1512	0.125	54 X 160 ft	ROLL	0.16
	LS-1519	0.187	54 X 100 ft	ROLL	0.23
	LS-1525	0.25	54 X 80 ft	ROLL	0.31
	LS-1537	0.375	54 X 60 ft	ROLL	0.47
	LS-1025LM	0.25	54 X 80 ft	ROLL	0.21
Isoloss LS sample rolls	LS-2503	0.032	54 X 10 ft	ROLL	0.06
	LS-2006	0.062	54 X 10 ft	ROLL	0.1
	LS-2012	0.125	54 X 10 ft	ROLL	0.2
	LS-1512	0.125	54 X 10 ft	ROLL	0.16
	LS-1519	0.187	54 X 5 ft	ROLL	0.23
	LS-1525	0.25	54 X 5 ft	ROLL	0.31
	LS-1537	0.375	54 X 5 ft	ROLL	0.47
	LS-1025LM	0.25	54 X 5 ft	ROLL	0.21



Property	LS-1500	LS-2000	LS-2500
Density nominal kg/m³ (lb/ft³) ASTM D3574	240 (15)	320 (20)	400 (25)
Flammability UL 94 FMVSS-302	Listed HBF Meets	Listed HBF Meets	Listed HBF Meets
Volume resistivity ASTM D257, ohms	1.3 x 10 ¹¹	1.3 x 10 ¹¹	1.3 x 10 ¹¹
Hardness ASTM D 2240 Durometer 15 sec post impact, Type 0 15 sec post impact, Type 00	12 50	19 58	21 62
Brittleness temperature °C (°F) ASTM D746	-52°C (-62°F)	-52°C (-62°F)	-52°C (-62°F)
Sealing Qualified for mfrd or natural gas; diesel Fuel or lubricating oil; liquified petroleum Gas; under UL 157 test standards UL 50 UL 508 UL 514B	Listed Listed Listed	Listed Listed Listed	Listed Listed Listed
Compression set (%) 50% compression ASTM D1667 22 hr at 23°C (73°F) ASTM D3574 22 hr at 70°C (158°F) ASTM D3574 after 5 hr autoclave at 121°C (250°F)	0.2 3.0 1.4	0.2 1.3 2.2	0.8 2.9 2.0
Compression load deflection kPa (psi) ASTM D3574, Deflection: 25% kPa (psi) 50% kPa (psi)	48 (7) 103 (15)	83 (12) 159 (23)	97 (14) 193 (28)
Tensile strength kPa (psi) ASTM D3574	586 (85)	862 (125)	1241 (180)
Tear strength kN/m (lbf/in) ASTM D624	1.4 (8.0)	2.1 (12.0)	2.8 (16.0)
Temperature Range °C (°F) Normal Operating Recommended Max. Intermittent	-40°C to 107°C (-40°F to 225°F) 120°C (248°F)	-40°C to 107°C (-40°F to 225°F) 120°C (248°F)	-40°C to 107°C (-40°F to 225°F) 120°C (248°F)
Outgassing ASTM E595 modified per ball Aerospace BASG 33074 24 hr at 10 ⁻⁵ Torr & 70°C (158°F), Weight Loss % Volatile Condensable Material, %	4.4 1.6	1.9 6.1	4.4 2.0
Corrosion resistance AMS D3568	Excellent	Excellent	Excellent
Cold flexibility AMS 3568 4hr at - 18°C (0°F)	Passes	Passes	Passes
Dielectric strength ASTM D149	56 V/ mil	56 V/ mil	56 V/ mil
RoHS compliant Typical properties	Yes	Yes	Yes

Contact us

Trelleborg Applied Technologies delivers innovative and reliable solutions, materials and smart systems that maximizes performance for our customers. Our dedicated and highly skilled staff are always on hand to provide seamless process support from initial idea, through to delivery and beyond.



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