

ISOLOSS™ LS Foams

ISOLOSS LS materials 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 also 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*

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.

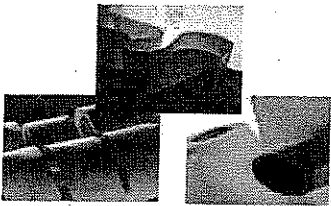
Materials must be tested under actual service to determine their suitability for a particular purpose.

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TYPICAL PROPERTIES			
PROPERTY	LS-1500	LS-2000	LS-2500
Density Nominal kg/m³ (lb/ft³) ASTM D3574	240 (15)	320 (20)	400 (25)
Flammability UL 94	Listed HBF	Listed HBF	Listed HBF
FMVSS-302	Meets	Meets	Meets
Volume Resistivity ASTM D257, ohms	1.3 x 10 ¹¹	1.3 x 10 ¹¹	1.3 x 10 ¹¹
Hardness ASTM D2240 Durometer 15 sec post impact, Type O 15 sec post impact, Type OO	12 50	19 58	21 62
Brittleness Temperature C (F) ASTM D746	-52C (-62F)	-52C (-62F)	-52C (-62F)
Sealing Qualified for mfrd or natural gas; diesel, fuel or lubricating oil; liquidified 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 23C (73F) ASTM D3574 22 hr at 70C (158F) ASTM D3574 after 5 hr autoclave at 121C (250F)	0.19 3.0 1.4	0.19 1.3 2.2	0.76 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	-40C to 107C (-40F to 225F) 120C (248F)	-40C to 107C (-40F to 225F) 120C (248F)	-40C to 107C (-40F to 225F) 120C (248F)
Outgassing ASTM E595 Modified per Ball Aerospace BASG 33074 24 hr at 10-5 Torr & 70C (158F), Weight Loss, % Volatile Condensable Material, %	4.4 1.9	4.4 1.6	6.1 2.0
Corrosion Resistance AMS D3568	Excellent	Excellent	Excellent
Cold Flexibility AMS 3568 4hr at -18C (0F)	Passes	Passes	Passes
Dielectric Strength ASTM D149	56 V/mil	56 V/mil	56 V/mil
RoHS Compliant	Yes	Yes	Yes





3000-37

D E S I G N E D A D H E S I V E S

TYCO ADHESIVES 3000-37

APPLICATIONS

Provides a pressure sensitive adhesive backing for foam, paper, felt, sponge rubber and plastic films

Bonding to trim, weather stripping, and gasket materials as well as others, in a wide variety of conditions

Bonding and assembly of sound and vibration control materials

FEATURES & BENEFITS

Excellent performance at high and low temperatures

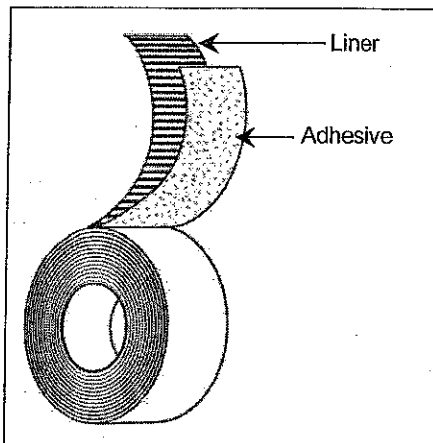
Durability under stress

Humidity resistance

Excellent anchorage to ether or ester foams, EPDM sponge and plastics including PE, TPO, ABS and PP

CONSTRUCTION

Transfer Adhesive



PRODUCT DESCRIPTION

Adhesive:

- Acrylic PSA

Liner:

- 74 lb Poly coated Kraft, release coated two sides

TEST DATA

Test	Typical Value	Typical Value (Metric)	Test Method
Thickness (Adhesive)	3 mils	76.1 microns	ASTM-D-3652
Thickness (Liner)	4.5 mils	114.2 microns	ASTM-D-3652
Peel Strength	104 oz/in	1139 N/m	ASTM-D-3330
Shear Strength	+24 hr	+24 hr	ASTM D 3654*
Laminating Temp.	50 - 150°F	10 - 65°C	
Application Temp.	50 - 150°F	10 - 65°C	
Maximum Continuous Use	220°F	104°C	
Intermittent Use	300°F	149°C	

Typical values are not intended to be used for specification development. Technical data is believed to be true and accurate. We recommend the purchaser test the fitness for use for all applications.

Since this product is neither toxic nor hazardous in nature, a Material Safety Data Sheet is not required.

Surface to which tape is applied needs to be clean, dry, and free of contaminants such as grease, oil, or dust.

Storage/Shelf Life:

1yr when stored at 70°F(21°C), 50% relative humidity, out of direct sunlight.

* Procedure C at 72°F



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Adhesives

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