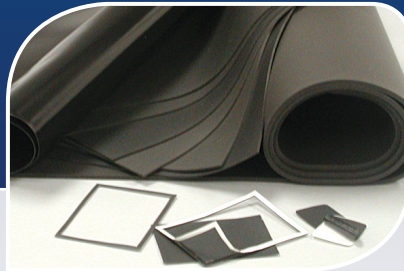




## ISOLOSS™ LS FOAMS

Material Summary Sheet 8



**Offering solutions for a wide range of applications such as...**

Lab, office equipment and computers

Medical equipment

Truck and automotive gaskets and seals



**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-10xxLM	LS-15xx	LS-20xx	LS-25xx
<b>Density Nominal kg/m<sup>3</sup> (lb/ft<sup>3</sup>)</b> ASTM D3574	160 (10)	240 (15)	320 (20)	400 (25)
<b>Flammability</b> UL 94	Listed HBF @ .24"+ Meets @ .06"+	Listed HBF @ .12"-.37" Meets @ .06"+	Listed HBF @ .12"-.37" Meets @ .06"+	Listed HBF .03"-.06" Meets @ .03"+
FMVSS-302	Meets			
<b>Volume Resistivity</b> ASTM D257, ohms	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>10</sup>	10 <sup>10</sup>
<b>Hardness</b> ASTM D2240 Durometer 15 sec post impact, Type O 15 sec post impact, Type OO	3 27	12 50	19 58	21 62
<b>Brittleness Temperature C (F)</b> ASTM D746	-40C (-40F)			
<b>Sealing</b> 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	Meets Meets Meets	Listed Listed Listed	Listed Listed Listed	Listed Listed Listed
<b>Compression Set (%)</b> <b>50% Compression</b> ASTM D1667 22 hr at 23C (73F) ASTM D3574 22 hr at 70C (158F)	< 1 < 3			
<b>Compression Load</b> <b>Deflection kPa (psi)</b> ASTM D3574, Deflection:				
10% kPa (psi)	13 (1.9)	30 (4.3)	50 (7.2)	71 (10.2)
20% kPa (psi)	18 (2.6)	44 (6.3)	79 (11.4)	113 (16.4)
30% kPa (psi)	21 (3.1)	55 (7.9)	102 (14.8)	150 (21.8)
40% kPa (psi)	27 (3.9)	71 (10.3)	134 (19.5)	198 (28.7)
50% kPa (psi)	37 (5.3)	99 (14.3)	189 (27.3)	280 (40.6)
60% kPa (psi)	56 (8.2)	155 (22.5)	301 (43.7)	459 (66.6)
70% kPa (psi)	108 (15.6)	306 (44.4)	637 (92.3)	1042 (151.2)
<b>Tensile Strength kPa (psi)</b> ASTM D3574	496 (72)	613 (89)	756 (110)	933 (135)
<b>Tear Strength kN/m (lbf/in)</b> ASTM D624	2.6 (14.6)	3.0 (17.1)	3.5 (20.0)	4.1 (23.5)
<b>Temperature Range C (F)</b> Normal Operating	-40C to 107C (-40F to 225F)			
Recommended Max. Intermittent	120C (248F)			
<b>Outgassing</b> ASTM E595 Modified per Ball Aerospace; BASG 33074 24 hr at 10-5 Torr & 70C (158F), Weight Loss, % Volatile Condensable Material, %	1.7 0.9			
<b>Corrosion Resistance</b> AMS D3568	Excellent			
<b>Cold Flexibility</b> AMS 3568 4hr at -18C (0F)	Passes			
<b>Dielectric Strength</b> V/mil (kV/mm); ASTM D149	60 (2)			
<b>RoHS Directive 2015/863/ EU Compliant</b>	Yes			

