

3M™ ISOLOSS™ LS foams are all-purpose polyurethane foams offering many beneficial characteristics such as low compression set, high durability, and broad operating temperature range to outperform in a variety of markets. LS foam is made available across a wide offering of densities and thicknesses.

PROPERTY	LS-10xxLM	LS-15xx	LS-20xx	LS-25xx
Density Nominal kg/m³ (lb/ft³) ASTM D3574	160 (10)	240 (15)	320 (20)	400 (25)
Flammability UL 94	Listed HBF @ .24"+ Meets @ .06"+	Listed HBF @ .12"- .37" Meets @ .06"+	Listed HBF .12"-.37" Meets @ .03"+	Listed HBF .03"-.06" Meets @ .03"+
FMVSS-302	Meets			
Volume Resistivity ASTM D257, ohms	10 ¹¹	10 ¹¹	10 ¹⁰	10 ¹⁰
Hardness ASTM D2240 Durometer				
15 sec post impact, Type O	3	12	19	21
15 sec post impact, Type OO	27	50	58	62
Brittleness Temperature C (F) ASTM D746	-40C (-40F)			
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	Meets Meets Meets		Listed Listed Listed	
Compression Load Deflection kPa (psi) 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)
Tensile Strength kPa (psi) ASTM D3574	496 (72)	613 (89)	756 (110)	933 (135)
Tear Strength kN/m (lbf/in) ASTM D624	2.6 (14.6)	3.0 (17.1)	3.5 (20.0)	4.1 (23.5)
Temperature Range C (F) Normal Operating Recommended Max. Intermittent	-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, %	1.7 0.9			
Corrosion Resistance AMS D3568	Excellent			
Cold Flexibility AMS 3568 4hr at -18C (0F)	Passes			
Dielectric Strength V/mil (kV/mm) ASTM D149	60 (2)			
RoHS Compliant	Yes			