



High Performance Polyurethane Foam, 10# - 25#

TECHNICAL DATA SHEET | (EFFECTIVE 25FEB24)

High Performance Polyurethane Foam (ISOLOSS)

PHYSICAL PROPERTY	TEST METHOD	UNIT	DENSITY			
			10#	15#	20#	25#
Density	ASTM D3574	lb/ft ³ kg/m ³	10 160	15 240	20 320	25 400
Flammability	UL 94	Listed HBF @	0.24" + Meets @ 0.06"+	0.12 - 0.37" Meets @ 0.06"+	0.12 - 0.37" Meets @ 0.06"+	0.03 - 0.06" Meets @ 0.03"+
	FMVSS 302	--	Meets	Meets	Meets	Meets
Volume Resistivity	ASTM D257	ohms	10 ¹¹	10 ¹¹	10 ¹⁰	10 ¹⁰
Hardness	ASTM D2240 Durometer	15 sec post impact: Type 0 Type 00	3 27	12 50	19 58	21 62
Brittleness Temperature	ASTM D746	°F (°C)	-40 (-40)	-40 (-40)	-40 (-40)	-40 (-40)
Sealing ¹	UL 157 test standards UL 50 UL 508 UL 514B		Meets Meets Meets	Listed Listed Listed	Listed Listed Listed	Listed Listed Listed
Compression Set (50% Compression)	ASTM D1667 22 hours at 73°F (23°C) ASTM D3574 22 hours at 158°F (70°C)		<1% <3%	<1% <3%	<1% <3%	<1% <3%
Compression Load Deflection	ASTM D3574, Deflection					
	10%	psi (kPa)	1.9 (13)	4.3 (30)	7.2 (50)	10.2 (71)
	20%		2.6 (18)	6.3 (44)	11.4 (79)	16.4 (113)

¹ Qualified for mfrd or natural gas; diesel, fuel or lubricating oil; liquidfied petroleum gas; under UL 157 test standard, UL 50, UL 508, UL 514B.

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			10#	15#	20#	25#
Compression Load Deflection	ASTM D3574, Deflection					
	30%	psi (kPa)	3.1 (21)	7.9 (55)	14.8 (102)	21.8 (150)
	40%		3.9 (27)	10.3 (71)	19.5 (134)	28.7 (198)
	50%		5.3 (37)	14.3 (99)	27.3 (189)	40.6 (280)
	60%		8.2 (56)	22.5 (155)	43.7 (301)	66.6 (459)
	70%		15.6 (108)	44.4 (306)	92.3 (637)	151.2 (1042)
Tensile Strength	ASTM D3574	psi (kPa)	72 (496)	89 (613)	110 (756)	135 (933)
Tear Strength	ASTM D624	lbf/in (kN/m)	14.6 (2.6)	17.1 (3.0)	20.0 (3.5)	23.5 (4.1)
Temperature Range	Normal Operating	°F	-40 - 225	-40 - 225	-40 - 225	-40 - 225
		°C	-40 - 107	-40 - 107	-40 - 107	-40 - 107
Outgassing	ASTM E595 Modified per Ball Aerospace BASG 33074 24 hours at 10-5 Torr & 158°F					
		Weight Loss %	1.7	1.7	1.7	1.7
		Volatile Condensable Material %	0.9	0.9	0.9	0.9
Corrosion Resistance	AMS D3568	--	Excellent	Excellent	Excellent	Excellent
Dielectric Strength	ASTM D149	kV/mm (V/mil)	2 (60)	2 (60)	2 (60)	2 (60)
RoHS	Directive 2015/863/EU Compliant		Yes	Yes	Yes	Yes