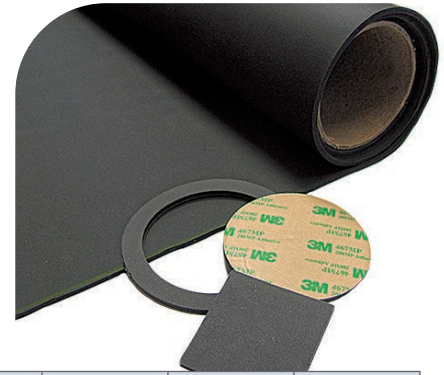


Product Description

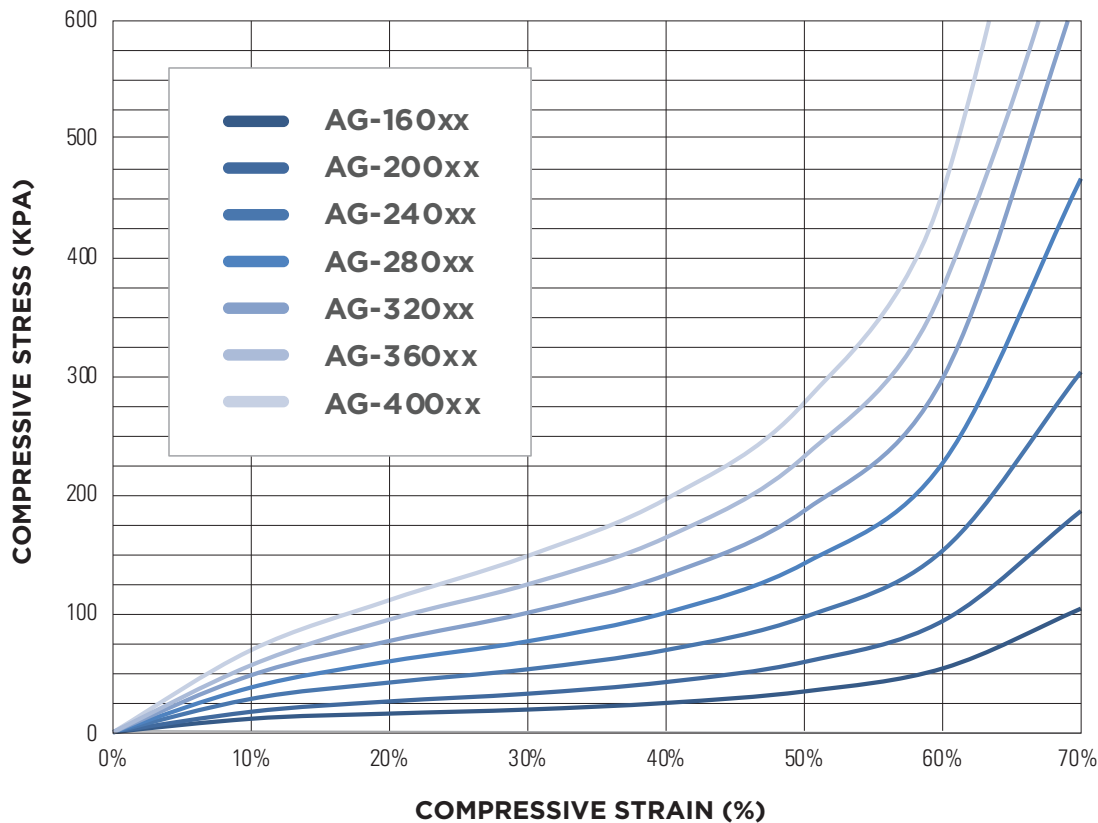
ISOLOSS™ AG (Automotive Grade) is a cushioning polyurethane foam designed specifically for the automotive market. It provides a consistent compression force deflection (CFD), combined with very low compression set, making it a perfect solution for use in electric vehicle battery packs to control the swelling of lithium-ion cells, along with many other general automotive applications.



ISOLOSS™ AG Foams

TYPICAL PROPERTIES							
PROPERTY	AG-160xx	AG-200xx	AG-240xx	AG-280xx	AG-320xx	AG-360xx	AG-400xx
Density Nominal kg/m³ (lb/ft³) ASTM D3574	160 (10)	200 (12.5)	240 (15)	280 (17.5)	320 (20)	360 (22.5)	400 (25)
Thickness Range, mm (in)	1 - 12 (.04 - 0.47)						
Compression Set (%) (50% compression) ASTM D1667 22 hr at 23C (73F) ASTM D3574 22 hr at 70C (158F)	< 1 < 3	< 1 < 3	< 1 < 3	< 1 < 3	< 1 < 3	< 1 < 3	< 1 < 3
Compression Load Deflection kPa (psi) ASTM D3574, Deflection:							
10% kPa (psi)	13 (1.9)	19 (2.7)	30 (4.3)	39 (5.7)	50 (7.2)	58 (8.4)	71 (10.2)
20% kPa (psi)	18 (2.6)	28 (4.0)	44 (6.3)	62 (8.9)	79 (11.4)	97 (14.0)	113 (16.4)
30% kPa (psi)	21 (3.1)	34 (5.0)	55 (7.9)	79 (11.4)	102 (14.8)	126 (18.3)	150 (21.8)
40% kPa (psi)	27 (3.9)	44 (6.4)	71 (10.3)	103 (14.9)	134 (19.5)	166 (24.1)	198 (28.7)
50% kPa (psi)	37 (5.3)	61 (8.8)	99 (14.3)	145 (21.0)	189 (27.3)	235 (34.0)	280 (40.6)
60% kPa (psi)	56 (8.2)	96 (14)	155 (22.5)	230 (33.4)	301 (43.7)	378 (54.8)	459 (66.6)
70% kPa (psi)	108 (15.6)	188 (27.2)	306 (44.4)	470 (68.1)	637 (92.3)	806 (116.9)	1042 (151.2)
Tensile Strength kPa (psi) ASTM D3574	496 (72)	551 (80)	613 (89)	680 (99)	756 (110)	840 (122)	933 (135)
Tear Strength kN/m (lbf/in) ASTM D624	2.6 (14.6)	2.8 (15.8)	3.0 (17.1)	3.2 (18.5)	3.5 (20.0)	3.8 (21.7)	4.1 (23.5)
Temperature Range C (F) Normal Operating Recommended Max. Intermittent	-40 to 107C (-40F to 225F) 120C (248F)						
Flammability UL 94 mm (in)	Meets HBF						
Thermal Conductivity – K Value ASTM C518 W/m*K (BTU in/hr ft ² F)	0.055 (0.38)	0.06 (0.42)	0.067 (0.46)	0.073 (0.51)	0.08 (0.56)	0.08 (0.56)	0.089 (0.62)
Brittleness Temperature C (F) ASTM D746	-40C (-40F)						
Dielectric Strength V/mil (kV/mm) ASTM D149	60 (2)						
Volume Resistivity ASTM D257, Ω/cm	10 ¹¹	10 ¹¹	10 ¹¹	10 ¹¹	10 ¹⁰	10 ¹⁰	10 ¹⁰
Surface Resistivity ASTM D257, Ω/□	10 ¹³	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²
RoHS Directive 2011/65/EU	Yes						

ISOLOSS™ AG - COMPRESSION FORCE DEFLECTION



Technical Information

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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