



**MATERIAL PROPERTY TEST REPORT**

Test Standard: General Motors GMW16214, Type 9 (2015)  
Material Type: Expanded Polypropylene Foam HB Series  
Testing Completed & Certified by: MGA Labs. Greer, SC, USA (A2LA Cert. 850.02)  
Product Type: HB Series

PROPERTY/TEST	PRINT** SPECIFICATION	SPECIMEN RESULTS	TEST METHOD
Density, g/l or kg/m <sup>3</sup> (120 g/l ±10%),	108-132	125	ISO 845
Tensile Strength KPa, Min	900	1229	ISO 1926
Tensile Elongation %, Min	8	9	ISO 1926
Compression, Stress 50% Strain, KPa, Min	1000	1590	ISO 844
Compression Set 22 h at 50% Comp, KPa, Max	45	27	ISO 1856
Flammability As Received	100	35	FMVSS-302 (per GMW3232)
Heat Aged, Max (mm/min)	100	23	
Resistance to Odor Rating	Rating >6	Rating = 9	GMW3205-B2
Emission Analysis VOC Value; micro-g/g, Target ≤	100	32	GMW15634
Fog Value; micro-g/, Target ≤	250	51	
Fogging Mg/Max	≤ 2	0.4	GMW3235-B-Y1-T1

This certifies that the above material meets the requirements for the Production Part Approval Process per the General Motors Engineering Specification GMW16214 for Type 9 for 2015

William A. Pate

Date 4/23/2015

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