



GLAZING RUBBER PRODUCTS, INC.

September 27, 2012

American Products, Inc.

13909 Lynmar Blvd

Tampa, FL 33626

RE: ASTM C-864 and C-509

Dear Kevin Mullan,

Your part number g-150 are made of 70 +/-5 Durometer EPDM. These rubber extrusions meet in accordance with ASTM C-864 specifications. The E2-0088 is made from sponge EPDM and meet in accordance with ASTM C-509. Laboratory test results for the above mentioned materials are attached for you reference.

Sincerely,

Karmen Pharris

Glazing Rubber Products, Inc.
71 Easy Street
Dawsonville, GA 30534

Compound Test Results
Dense EPDM Testing to ASTM C-864 Specifications

GRP#60 Duro

Qualification: ASTM C-864, Option II

ASTM Test Method	Product Characteristic	Typical Results	Required	Pass / Fail
D-2240	Hardness, Shore A	62	60 +/- 5	Pass
D-395	Compression set, max %	27.8	30	Pass
D-1149	Ozone resistance	no cracks	no cracks	Pass
D-412, Die C	Tensile strength, psi	1820	1600	Pass
D-412, Die C	Elongation at rupture, min %	480	250	Pass
D-573	Heat aging:			
	Hardness increase, max durometer points	+3	+10	Pass
	Change in tensile strength, max %	+1.6	-15	Pass
	Change in elongation, max %	33.0	-40	Pass
D-624, Die C	Tear strength, lbf/in	226	150	Pass
D-746	Brittleness temperature (-40 max C)	no cracks	no cracks	Pass
D-925	Non-staining	no migratory stain	no migratory stain	Pass
Para. 9.9	Flame propagation, Option I	> 1 in.	4 in. max	Fail
	Option II	no limit	no limit	Pass

Glazing Rubber Products, Inc.
71 Easy Street
Dawsonville, GA 30534

Compound Test Results
Dense EPDM Testing to ASTM C-864 Specifications

GRP#70 Duro

Qualification: ASTM C-864, Option II

ASTM Test Method	Product Characteristic	Typical Results	Required	Pass / Fail
D-2240	Hardness, Shore A	74	70 +/- 5	Pass
D-395	Compression set, max %	18.7	30	Pass
D-1149	Ozone resistance	no cracks	no cracks	Pass
D-412, Die C	Tensile strength, psi	1920	1800	Pass
D-412, Die C	Elongation at rupture, min %	320	200	Pass
D-573	Heat aging:			
	Hardness increase, max durometer points	+4	+10	Pass
	Change in tensile strength, max %	-2	-15	Pass
	Change in elongation, max %	33.0	-40	Pass
D-624, Die C	Tear strength, lbf/in	152	100	Pass
D-746	Brittleness temperature (-40 max C)	no cracks	no cracks	Pass
D-925	Non-staining	no migratory stain	no migratory stain	Pass
Para. 9.9	Flame propagation, Option I	> 4 in.	4 in. max	Fail
	Option II	no limit	no limit	Pass

Glazing Rubber Products, Inc.
71 Easy Street
Dawsonville, GA 30534

Compound Test Results
Sponge Testing to ASTM C-509 Specifications

GRP#Sponge **Qualification: ASTM C-509, Type II, Option II**

ASTM Test Method	Product Characteristic	Typical Results	Required	Pass / Fail
D-1056	Compression deflection 25% deflection limits, psi	18.3	13 to 24	Pass
D-395 Method B	Compression set, max %	27.2	30	Pass
D-865 D-1056	Heat aging, change in compression-deflection values, psi	2	0 to +10	Pass
11.4	Dimensional stability, change max %	1	4	Pass
D-1149	Ozone resistance:			
	Type I 100 MPa ozone	no cracks	no cracks	Pass
	Type II 300 MPa ozone	no cracks	no cracks	Pass
Appendix XI	Brittleness temperature (-40 max C)	-no cracks	no cracks	Pass
11.7	Water absorption, max % weight	1.3	5	Pass
11.8	Flame propagation			
	Option I	>4 in.	4 in max.	Fail
	Option II	no limit	no limit	Pass
D-925	Non-staining	no migratory stain	no migratory stain	Pass