

# Vulcan EVA Foam Mechanical Properties

Physical Properties	Units	Test method	2 lb	4 lb	VS 9115	VS 9125	VS 9135	VS 9145	VS 5555	VS 5565	VS 5575	Firm 6#	Firm 9#
Hardness, Duro A	---	ASTM D 2240	---	---	15-25	20-30	30-40	40-50	50-60	60-70	70-80	34-45	45-55
Density	lb/cu ft	ASTM D 3575	1-3	3-5	5-7	8-10	11-13	13-15	14-17	16-19	19-23	5-7	8-10
Compression Deflection 25%	psi	ASTM D 1056	3	5-10	10-15	20-30	30-40	50-60	---	---	---	40	50
Compression Set	% of Original	ASTM D 1056	15	10	10	10	10	10	7	7	7	25	20
Tensile Strength	psi	ASTM D 412	30	50	180	225	350	375	375	450	480	150	300
Elongation	percent	ASTM D 412	150	150	250	300	300	350	175	200	150	50	50
Tear Strength, Die C	lb/in	ASTM D 624	10	15	25	35	50	60	60	75	90	40	50
Water Absorption	lb/sq ft	ASTM D 3575	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Resilience	percent	ASTM D 2632	40	40	45	35	25	25	15	15	10	20	15
Thermal Stability	percent	ASTM D 3575	2	2	2	2	2	2	2	2	2	2	2
Flame Resistance ( FMVSS-302 )	---	ASTM D 5132	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	---	---
Approx. Sheet Size	inches	---	48x96	39x72 48x96	50x80 36x64	48x90 40x75	42x78	40x75	40x75	39x72	32x62	48x78 34x62	46x88 38x73

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This data represents typical results from normal production runs. It is not offered as an exact or guaranteed product specification. The consumer should determine for himself the suitability of these products.