



RhinoLite - Sheet Molding Compounds (SMC) Data

PROPERTIES	HM-9100 (HM027)	HM-9110 VARIOUS 22	HM-9300 -NAT, BLK,BRWN (HM044, HM181, HM189)		***HM-9301-22, -30 (HM169)		HM-9301-NAT, BLK, BRWN		HM-9312 WHT (HM184)	HM-9400 VARIOUS 22	HM-9510-NAT (HM110) 55	TEST METHOD
GLASS CONTENT (%)	30	22	22	30	22	26	22	30	18	22	55	-----
Impact, IZOD Notched, (Ft/Lb/In)	13	13	13	17	13	17	10	16	10	13	20	ASTM D-256
Flexural Strength, (PSI)	28000	20,000	20,000	30000	20,000	25,000	20,000	25000	15000	20,000	44,000	ASTM D-790
Flexural Modulus, (10 x E6 PSI)	1.70	1.7	1.7	1.9	1.70	1.90	1.5	1.8	1.85	1.7	1.80	ASTM D-790
Tensile Strength, (PSI)	14000	9,000	9,000	14000	9,000	12,000	8000	13000	5000	9,000	25,000	ASTM D-638
Tensile Modulus, (10 x E6 PSI)	1.8	1.8	1.8	1.9	1.80	1.90	1.4	1.8	1.85	1.8	2.00	ASTM D-638
Compressive Strength, (PSI)	28000	24,000	24,000	28000	24,000	28,000	20000	24000	22000	24,000	33,000	ASTM D-695
Water Absorption, in 24 hrs./73°F, (%)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.3	0.20		ASTM D-570
Specific Gravity (Minimum), (g/cc)	1.87	1.8	1.8	1.85	1.77	1.85	1.75	1.8	1.69	1.8	1.55	ASTM D-792
Specific Gravity (Minimum), (lb/in3)	0.067	0.065	0.065	0.067	0.064	0.067	0.063	0.065	0.061	0.065	0.056	
Specific Gravity (Minimum), (lb/ft3)	116.64	112.27	112.27	115.39	110.40	115.39	109.15	112.27	105.41	112.27	96.68	ASTM D-792
Weight of 0.10" Thick Laminate (Minimum), psf	0.97	0.93	0.93	0.96	0.92	0.96	0.91	0.93	0.87	0.93	0.80	-----
Areal Sheet Weight GSF	479	461	461	474	453	474	448	461	433	482	415	
Heat Deflection @ 264 PSI, (°F)	300 +	300 +	+375°F	+375°F	200+	200+	+375°F	+375°F	TBD	300 +		ASTM D-648
Shrinkage, (in/in)	0.002	0.002	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0007	0.002	0.001	ASTM D-955
Barcol Hardness (Minimum)	60	35	35	40	35	35	35	40	35	35	55	ASTM D-2583
Ultraviolet Rating			F1	F1	F1	F1	F1	F1	F1			U.L. 746
FDA Approved Materials	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES		

FLAMMABILITY - PER U.L. & ASTM TESTING METHODS

U.L. File No.			E55930	E55930	E55930	E55930	E55930	E55930	E55930	E55930		-----
FLAMMABILITY	Burns Slowly - ASTM D635	Burns Slowly - ASTM D635	94V-0, 5VA	94V-0, 5VA	94V-0, 5VA	94V-0, 5VA	94V-0 **	94V-0 **	94V-0, 5VA	Burns Slowly - ASTM D635		U.L. 94
Ignition Temperature, °C												U.L. 746
Oxygen Index												ASTM D-2863
Arc Resistance, Arcs to Ignite			200+	200+	200+	200+	200+	200+	200+			U.L. 746
Hot Wire Ignition, Seconds to Ignite			190+ *	190+ *	250+ *	250+ *	190+ *	190+ *	190+ *			U.L. 746
High Volt. Arc Resist., Sec. to Ignite/Track			No Track/Ignite	No Track/Ignite	No Track/Ignite	No Track/Ignite	No Track/Ignite	No Track/Ignite	No Track/Ignite			U.L. 746
Flame Spread (Radiant Panel)			50 or less **	50 or less **	50 or less **	50 or less **	50 or less **	50 or less **	50 or less **			ASTM E-162
Track Resistance, (Sec.)												
Arc Resistance, (Sec.)			183	183	183	183	183	183	183			ASTM D-495
Dielectric Strength S.T., Perp., (V/M)			602	594	608	595	602	594	594			ASTM D-149
Volume Resistivity, (Megaohm-cm)			10.5 x E6	11.5 x E6	9.2 x E6	9.8 x E6	10.5 x E6	11.5 x E6	11.5 x E6			ASTM D-257

Note(S): * All except 1/16 inch thick and below panels. ** 1/4 and 1/8 inch only. 1/16 inch thickness rates 94HB. All colors. *** Certified to Boeing BMS 8-225 & BMS 8-197. **** Certified to Rockwell , Northrop, and MIL-P



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