



GEON[®] 87703

Extrusion Cube Compound - Exterior Ridged Profile Color Weatherability

Geon 87703 is a proven weatherable rigid extrusion vinyl compound. The following table summarizes the actual outdoor weathering data for this compound.

	6 Months			12 Months			24 Months			36 Months			60 Months		
	AZ	OH	FL	AZ	OH	FL	AZ	OH	FL	AZ	OH	FL	AZ	OH	FL
White 1151															
Δ L	-0.36	-1.91	-0.75	-1.52	-1.87	-0.78	-1.41	-1.79	-0.84	-1.81	-0.17	-1.38	-	-	-
Δ a	-0.26	0.04	-0.11	-0.54	-0.07	-0.13	-0.50	-0.16	-0.24	-0.57	0.93	-0.43	-	-	-
Δ b	-0.76	-0.37	0.37	3.00	0.57	0.54	3.31	1.01	1.10	4.15	-1.05	2.34	-	-	-
Δ E	0.88	1.95	0.85	3.41	1.96	0.95	3.63	2.06	1.41	4.57	1.41	2.74	-	-	-
White 141															
Δ L	0.55	-1.58	-0.28	-0.13	-0.99	-0.03	0.28	-0.99	0.24	0.45	-0.03	0.17	-	-	-
Δ a	-1.05	-0.47	-0.84	-1.81	-0.86	-1.02	-2.25	-1.07	-1.26	-2.26	-1.19	-1.44	-	-	-
Δ b	2.17	1.11	1.37	5.98	1.70	1.49	7.34	2.22	2.26	7.43	2.37	2.97	-	-	-
Δ E	2.47	1.98	1.63	6.25	2.15	1.80	7.68	2.65	2.60	7.78	2.65	3.30	-	-	-
White 1414															
Δ L	0.02	-1.40	0.45	-0.52	0.21	0.18	-0.14	0.23	0.56	-0.53	0.31	0.49	-	-	-
Δ a	-0.26	-0.05	-0.19	-0.68	-0.09	-0.15	-0.57	-0.15	-0.20	-0.73	-0.15	-0.27	-	-	-
Δ b	0.89	0.72	0.48	3.27	0.21	0.37	2.84	0.37	0.46	3.72	0.37	0.69	-	-	-
Δ E	0.93	1.58	0.68	3.38	0.31	0.44	2.90	0.46	0.75	3.82	0.51	0.89	-	-	-
Gray 238															
Δ L	3.43	-0.64	0.22	5.15	-0.03	0.91	5.52	1.34	4.11	5.35	4.48	3.24	-	-	-
Δ a	-0.20	0	-0.08	-0.40	-0.07	-0.10	-0.73	-0.09	-0.14	-0.95	-0.1	-0.15	-	-	-
Δ b	-0.36	0.17	0.04	0.11	0.12	-0.22	0.93	-0.24	-0.52	1.84	-0.71	-0.5	-	-	-
Δ E	3.45	0.66	0.24	5.16	0.14	0.94	5.65	1.36	4.14	5.74	4.54	3.28	-	-	-
Beige 349															
Δ L	2.81	-0.42	0.52	3.80	0.06	1.52	4.55	2.34	3.65	4.00	4.51	3.20	-	-	-
Δ a	-0.09	0.06	-0.01	-0.13	0.06	0.01	-0.34	0.05	0.07	-0.32	0.05	0	-	-	-
Δ b	-1.42	-0.28	-0.39	-1.76	-0.65	-0.98	-1.17	-1.95	-2.31	-0.82	-3.03	-1.68	-	-	-
Δ E	3.14	0.50	0.65	4.18	0.65	1.81	4.71	3.04	4.32	4.10	5.44	3.62	-	-	-

Color Change in Hunter L,a,b units

- Δ L - change in lightness/darkness direction
- Δ a - change in red/green direction
- Δ b - change in yellow/blue direction
- Δ E - total color change

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Extrusion Cube Compound - Exterior Ridged Profile

Impact Performance

ASTM D - 4226 Drop Impact Test (in.lbs./mil.) C.125 Dart

ORIGINAL	6 Months			12 Months			24 Months			36 Months			60 Months			
	AZ	OH	FL	AZ	OH	FL	AZ	OH	FL	AZ	OH	FL	AZ	OH	FL	
360 °F Melt																
A	1.5	1.4	1.5	1.2	1.2	1.2	1.1	0.3	1.0	0.6	0.4	1.1	.4 - 1.1	-	-	-
B	1.5	1.4	1.5	1.2	1.2	1.2	1.1	0.3	1.0	0.6	0.4	1.1	.4 - 1.1	-	-	-
390 °F Melt																
A	1.5	1.3	1.4	1.3	1.3	1.6	1.3	0.7	1.2	1.2	.5 - .7	1.2	1.2 - 1.5	-	-	-
B	2.6	1.4	2.0	1.9	1.3	1.6	1.3	0.7	2.0	1.3	.5 - .7	1.2 - 2.0	1.2 - 1.8	-	-	-

Note: Impact and impact retention is greatly affected by the melt temperature, internal stresses and product surface.

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