



GEON[®] 85885

Extrusion Cube Compound - Exterior Ridged Profile Color Weatherability

Geon 85885 is a dark to medium (3535) brown rigid exterior extrusion compound which has proven superior in terms of color retention to other commercial exterior browns. 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
Brown 385															
Δ L	-1.50	-0.32	-1.08	-2.18	-0.04	-1.69	-1.13	-0.26	-2.14	-1.99	-0.88	-1.76	-1.93	1.02	-0.53
Δ a	0.27	0.08	0.21	0.30	0.03	0.24	0.14	0.05	0.13	1.45	0.18	0.01	-1.59	-0.2	-0.35
Δ b	0.43	-0.06	0.18	0.36	-0.37	-0.03	-0.07	-1.19	-1.09	-1.12	2.73	-0.36	-1.08	-1.54	-0.88
Δ E	1.59	0.34	1.11	2.23	0.37	1.71	1.14	1.22	2.40	2.70	2.87	1.79	2.72	1.85	1.09
Brown 398															
Δ L	-0.07	0.14	-0.02	-0.64	0.34	-1.56	-1.65	-0.02	-1.98	-1.75	-1.86	-0.36	-1.66	-1.42	-0.88
Δ a	-0.09	-0.04	-0.05	-0.04	0.05	-0.03	-0.14	-0.04	-0.12	-0.11	-0.17	-0.20	-0.06	-0.34	-0.18
Δ b	0.09	-0.01	0.03	0.20	-0.12	0.33	-1.12	-0.34	-0.02	-0.86	-0.14	-0.09	-0.86	-0.19	-0.07
Δ E	0.15	0.15	0.06	0.67	0.36	1.60	1.99	0.35	1.99	1.96	1.87	0.42	1.87	1.48	0.90
Brown 3535 extruded samples															
Δ L	-0.58	0.02	-0.17	3.42	1.67	0.32	6.69	6.58	2.21	-	-	-	-	-	-
Δ a	0.11	-0.03	0.04	-0.30	-0.26	0	-0.43	-0.78	-0.15	-	-	-	-	-	-
Δ b	0.38	0.04	0.11	-0.12	-0.50	0.07	0.56	-0.91	-0.13	-	-	-	-	-	-
Δ E	0.70	0.05	0.21	3.44	1.76	0.33	6.73	6.69	2.22	-	-	-	-	-	-
Brown 3535 compression molded samples															
Δ L	-0.39	0.12	-0.10	2.93	0	1.62	5.50	4.62	-	-	-	-	-	-	-
Δ a	0.10	-0.02	-0.01	-0.32	-0.08	-0.16	0.22	-0.54	-	-	-	-	-	-	-
Δ b	0.21	-0.18	0.12	-0.20	0.07	-0.16	0.67	-0.84	-	-	-	-	-	-	-
Δ E	0.45	0.22	0.15	2.96	0.11	1.63	5.55	4.72	-	-	-	-	-	-	-

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 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 C.125 Dart																
A	1.1	0.9	1.0	1.0	0.5	1.0	0.9	0.7	0.9	0.3	0.3	0.5	0.3	0.3	0.3	0.4
B	4.2+	2.8	4.2+	4.2+	0.5	4.1	3.4	0.7	0.9	0.3	0.3	0.5	0.3	0.3	0.3	0.4
370 °F Melt 1/4" Conical																
A	1.6	1.4	1.5	1.4	1.4	1.6	1.3	1.4	1.3	1.3	-	-	-	-	-	-
B	3.6+	3.0+	3.6+	3.5+	2.8	3.6+	3.5+	1.7	3.6+	2.0	-	-	-	-	-	-
390 °F Melt C.125 Dart																
A	1.2	1.0	1.0	1.2	0.5	1.2	1.1	0.7	0.6	0.3	0.6	0.4	0.4	0.5	0.3	0.4
B	4.0+	4.1+	4.1+	4.1+	0.5	3.5	3.3+	0.7	0.6	0.3	0.6	0.4	0.4	0.5	0.3	0.4

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

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