



GEON[®] 87538

Extrusion Powder Compound

Color Weatherability

Geon 87538 is an exterior, impact resistant, multi-screw rigid powder compound for profile applications requiring good weathering resistance. CCMC* Listed for PVC window compounds meeting CSA-A440-M90. 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 1315															
Δ L	-0.06	-1.27	0.41	-1.65	0.41	0.48	-1.46	0.63	0.55	-2.29	0.11	0.17	-	-	-
Δ a	-0.17	0.12	-0.04	-0.41	0.03	0.01	0.18	0.05	0.03	0.63	-0.04	-0.01	-	-	-
Δ b	0.99	0.31	0.24	5.35	0.11	0.37	3.37	0.08	0.98	4.18	1.03	1.46	-	-	-
Δ E	1.01	1.31	0.47	5.51	0.43	0.61	3.68	0.64	1.12	4.81	1.03	1.47	-	-	-
White 136															
Δ L	-0.31	-0.71	-0.24	-1.67	-0.57	0.05	-1.72	-0.55	0.70	-4.29	0.05	0.51	-	-	-
Δ a	-0.24	0.35	0.15	-0.05	0.21	0.24	0.30	0.38	0.17	1.29	0.25	0.09	-	-	-
Δ b	2.10	-0.33	0.40	5.10	0.36	0.15	4.56	-0.11	0.35	6.03	0.25	0.92	-	-	-
Δ E	2.13	0.85	0.49	5.36	0.70	0.29	4.88	0.68	0.80	7.51	0.35	1.09	-	-	-
White 141															
Δ L	1.09	-0.11	0.49	-0.09	-0.79	1.58	-0.18	1.52	1.48	-1.32	1.42	1.51	-	-	-
Δ a	-0.49	0.08	-0.18	-0.57	-0.03	-0.12	-0.15	-0.13	-0.31	0.64	-0.17	-0.25	-	-	-
Δ b	1.97	-0.31	0.70	5.55	0.32	0.01	5.46	0.00	0.80	5.81	0.35	0.89	-	-	-
Δ E	2.30	0.34	0.87	5.58	0.85	1.58	5.46	1.53	1.71	5.99	1.47	1.82	-	-	-
White 150															
Δ L	0.72	-0.59	0.19	-0.39	0.11	1.05	0.27	0.83	1.75	-1.15	1.70	1.79	-	-	-
Δ a	0.37	0.56	0.58	0.40	0.61	0.71	0.77	0.79	0.52	1.40	0.59	0.25	-	-	-
Δ b	2.66	-0.43	0.36	6.61	0.59	0.64	5.98	0.60	0.72	7.38	0.63	1.41	-	-	-
Δ E	2.78	0.92	0.71	6.63	0.86	1.42	6.04	1.29	1.97	7.60	1.91	2.30	-	-	-

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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	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
Gray 238															
Δ L	1.58	-0.72	0.94	1.94	1.96	3.99	1.81	6.37	2.83	0.46	6.58	1.58	-	-	-
Δ a	-0.28	0	-0.13	-0.41	-0.10	-0.10	-0.32	-0.02	-0.14	-0.46	-0.04	-0.19	-	-	-
Δ b	0.87	0.26	0.16	2.44	-0.27	-0.48	1.56	-1.28	0.15	3.07	-1.11	0.74	-	-	-
Δ E	1.83	0.76	0.97	3.14	1.98	4.02	2.41	6.50	2.84	3.13	6.68	1.76	-	-	-
Beige 349															
Δ L	1.40	-0.42	0.81	2.21	1.27	3.28	2.13	4.84	2.67	0.66	5.03	1.77	-	-	-
Δ a	-0.17	0.01	-0.06	-0.05	0	0	-0.18	0	-0.06	-0.09	-0.02	-0.11	-	-	-
Δ b	-0.06	0.01	-0.44	-0.17	-1.21	-2.28	-0.08	-3.59	-1.26	1.58	-3.49	-0.29	-	-	-
Δ E	1.41	0.42	0.92	2.21	1.76	4.00	2.14	6.02	2.95	1.72	6.12	1.80	-	-	-
Green 523															
Δ L	1.50	0.03	0.97	3.38	3.05	3.84	3.35	5.96	2.64	2.61	5.92	1.38	-	-	-
Δ a	0.14	0.07	0.07	0.54	0.45	0.63	0.37	0.93	0.30	0.31	0.85	0.05	-	-	-
Δ b	-0.41	-0.14	-0.53	-1.08	-1.95	-2.23	-1.11	-3.14	-1.12	-0.48	-3.01	-0.31	-	-	-
Δ E	1.57	0.16	1.10	3.59	3.65	4.48	3.55	6.80	2.88	2.67	6.70	1.42	-	-	-

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Extrusion Powder Compound

Impact Performance

ASTM D - 4226 Drop Impact Test (in.lbs./mil.) 385 °F - 390°F Melt

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	
C .125 Dart																
A	1.4	0.9	1.0	1.0	0.9	1.0	1.0	0.6-0.8	1.0	1.1	0.4	1.2	1.2	-	-	-
B	5.4+	5.2	5.4+	5.4+	3.2	5.0+	5.0+	0.6-0.8	5.3+	5.4+	0.4	5.2+	5.3+	-	-	-
H .250 Dart																
A	3.1	2.6	2.9	2.8	2.2	2.8	2.6	1.4	2.6	2.6	-	-	-	-	-	-
B	3.1+	2.6+	2.9+	2.8+	2.2+	2.8+	2.7+	1.4	2.6+	2.6+	-	-	-	-	-	-

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