



# GEON<sup>®</sup> 85889

## Extrusion and Injection Molding Cube Compound Color Weatherability

Geon 85889 is an extrusion and molding cube compound with good toughness, weatherability and very high gloss. Recommended for use in outdoor casual furniture and applications requiring an aesthetic, high-gloss finish. 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
<b>White 119</b>															
Δ L	0.02	-2.35	-0.24	-0.40	-0.53	-0.57	-0.31	0.62	0.19	-	-	-	-	-	-
Δ a	-0.10	-0.30	0.04	-0.60	0.07	-0.07	-0.41	-0.05	-0.08	-	-	-	-	-	-
Δ b	-0.35	0.07	-0.70	1.97	-0.76	-0.12	1.85	-0.40	-0.59	-	-	-	-	-	-
Δ E	<b>0.37</b>	<b>2.35</b>	<b>0.74</b>	<b>2.10</b>	<b>0.93</b>	<b>0.59</b>	<b>1.94</b>	<b>0.78</b>	<b>0.62</b>	-	-	-	-	-	-
<b>Gray 253</b>															
Δ L	0.25	2.67	0.83	-0.57	5.51	0.58	-0.11	6.58	0.43	-0.04	4.39	0.31	-	-	-
Δ a	-0.34	-0.07	-0.05	-0.62	-0.24	-0.20	-0.48	-0.27	-0.21	-0.61	-0.20	-0.28	-	-	-
Δ b	1.15	-0.59	-0.11	3.36	-0.26	0.68	2.01	-0.11	0.92	1.97	0	1.10	-	-	-
Δ E	<b>1.22</b>	<b>2.73</b>	<b>0.84</b>	<b>3.46</b>	<b>5.52</b>	<b>0.92</b>	<b>2.07</b>	<b>6.58</b>	<b>1.03</b>	<b>2.06</b>	<b>4.40</b>	<b>1.17</b>	-	-	-
<b>Beige 324</b>															
Δ L	0.36	1.29	0.55	-1.46	1.11	0.33	0.07	2.45	0.69	0.30	2.24	0.66	-	-	-
Δ a	-0.50	0.10	0.05	0.26	0.38	0.05	0.05	0.42	-0.10	-0.35	0.12	-0.31	-	-	-
Δ b	0.94	-0.50	0.01	2.32	-2.19	0.23	2.02	-3.82	0.61	1.94	-2.61	0.93	-	-	-
Δ E	<b>1.01</b>	<b>1.39</b>	<b>0.55</b>	<b>2.76</b>	<b>2.48</b>	<b>0.41</b>	<b>2.02</b>	<b>4.56</b>	<b>0.93</b>	<b>1.99</b>	<b>3.44</b>	<b>1.18</b>	-	-	-
<b>Vanilla 618</b>															
Δ L	0.44	0.74	0.78	-2.83	0.04	0.40	-0.79	0.11	0.50	-0.49	0.61	0.23	-	-	-
Δ a	0.02	0.08	0.02	0.95	0.59	0.10	0.64	0.96	0.11	0.14	0.71	0.18	-	-	-
Δ b	1.28	0.18	0.37	3.09	-0.26	0.69	2.90	-1.67	0.73	2.35	-1.90	1.21	-	-	-
Δ E	<b>1.35</b>	<b>0.77</b>	<b>0.86</b>	<b>4.30</b>	<b>0.64</b>	<b>0.81</b>	<b>3.08</b>	<b>1.93</b>	<b>0.90</b>	<b>2.40</b>	<b>2.11</b>	<b>1.21</b>	-	-	-

### 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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GEON RIGID VINYL



EXTERIOR COMPOUNDS

# GEON® 85857

Extrusion and Injection Molding Cube Compound  
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		
<b>360 °F Melt</b>																		
<b>A</b>	2.0	1.6	1.6	1.7	1.8	1.7	1.7	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.4	-	-	-
<b>B</b>	2.1+	2.1+	2.1+	2.1+	2.1+	2.1+	2.1+	2.0+	2.0+	2.0+	2.0+	2.0+	2.0+	2.0+	2.0+	-	-	-

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

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