

DESCRIPTION/FEATURES: Exterior, High Impact, CSA M440
MARKET: Windows, Doors, Decking
PROCESSING METHOD: Extrusion-Twin Screw, Extrusion-Profile

	TEST METHOD	VALUE	UNITS
Physical Properties			
Specific Gravity	ASTM D792	1.46	
Product Form		Powder	
Durometer Hardness D, Instantaneous	ASTM D2240	80	
Mechanical Properties			
Tensile Strength	ASTM D638	6,650	psi
Type 1 - Rigid, Yield, 2 in/min		45.9	MPa
Tensile Modulus	ASTM D638	420,000	psi
Type 1 - Rigid, 2 in/min		2,896	MPa
Flexural Strength	ASTM D790	13,000	psi
		90	MPa
Flexural Modulus	ASTM D790	430,000	psi
		2,965	MPa
Izod	ASTM D256	19.8	ft-lb/in
Notched - Method A, Against Grain - Comp. Molded, 0.125 in bars, 73°F(23°C)		1,048	J/m
Drop Dart Impact Resistance Procedure A, 0.125 in Conical Dart, 73°F(23°C)	ASTM D4226	1.1	in-lb/mil
		48.9	J/cm
Drop Dart Impact Resistance Procedure B, 0.125 in Conical Dart, 73°F(23°C)	ASTM D4226	5.0	in-lb/mil
		222.4	J/cm
Thermal Properties			
Coeff of Linear Thermal Expansion	ASTM D696	3.4E-5	in/in/°F
		6.0E-5	cm/cm/°C
HDT	ASTM D648	166	°F
Unannealed, 284 psi, 0.125 in bars		74	°C
Processing Information			
Melt Temperature Range		300 to 400	°F
Extrusion		193 to 204	°C
Compliance Information			
Cell Classification D4216	ASTM D4216	14144-43301-01	
Cell Classification D1784	ASTM D1784	16354	
AAMA 303	ASTM D4726	P366	

Originator: 52

Version Issued: 9/12/01

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GEON® E7364

Extrusion Powder Compound

Weathering Performance

Issue Date: 8/09/2000

GEON® E7364 is an exterior grade, impact modified, rigid PVC profile extrusion powder 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
	Based on WHT 1410														
	White Series														
Δ L	-0.02	0.51	0.60	0.41	0.22	0.87	0.45	-0.03	1.08	2.09	1.03	0.40			
Δ a	-1.01	-0.53	-0.60	-0.94	-0.69	-0.69	-0.92	-0.86	-0.87	-1.39	-0.70	-1.23			
Δ b	3.96	1.33	1.33	3.03	1.75	1.49	3.67	2.63	1.98	4.54	1.45	3.75			
Δ E	4.09	1.52	1.58	3.20	1.89	1.86	3.81	2.77	2.42	5.19	1.91	3.97			
	Based on GRV 2280														
	Gray Series														
Δ L	1.01	0.61	0.47	2.14	1.59	1.53	1.62	4.60	2.70	1.41	5.19	2.01			
Δ a	-0.40	-0.09	-0.11	-0.31	-0.13	-0.19	-0.32	-0.20	-0.20	-0.47	-0.12	-0.30			
Δ b	1.84	0.36	0.44	0.97	0.01	0.52	1.36	-0.04	0.43	2.18	-0.34	1.39			
Δ E	2.14	0.71	0.65	2.37	1.60	1.63	2.14	4.60	2.74	2.64	5.20	2.46			
	Based on BGE 3490														
	Beige Series														
Δ L	0.54	0.18	0.10	1.75	0.50	0.87	1.37	2.95	1.98	2.35	4.33	1.42			
Δ a	-0.05	0.00	-0.03	-0.08	-0.02	-0.08	-0.11	-0.03	-0.10	0.02	0.00	-0.15			
Δ b	0.23	-0.48	-0.46	-0.89	-0.78	-0.40	-0.22	-2.45	-1.08	-1.01	-3.10	-0.14			
Δ E	0.59	0.51	0.47	1.96	0.93	0.96	1.39	3.83	2.26	2.56	5.33	1.43			
Δ L															
Δ a															
Δ b															
Δ E															
Δ L															
Δ a															
Δ b															
Δ E															

Color Change in Hunter units

GEON® E7384

Extrusion Powder Compound
Accelerated Weathering Performance

Issue Date: 01/09/2000

GEON® E7384 is an exterior grade, impact modified, rigid PVC profile extrusion powder compound.

	<u>360 Hours</u> <u>QUV</u>	<u>720 Hours</u> <u>QUV</u>	<u>1080 Hours</u> <u>QUV</u>	<u>1500 Hours</u> <u>QUV</u>	<u>2000 Hours</u> <u>QUV</u>
White Series					Based on WHI 1410
Δ L	-0.16	0.18	0.13		
Δ a	-0.41	-0.81	-0.67		
Δ b	1.36	3.13	2.61		
Δ E	1.43	3.24	2.79		
Gray Series					Based on GRY 2380
Δ L	0.09	2.24	2.41		
Δ a	-0.10	-0.34	-0.37		
Δ b	0.29	0.89	1.07		
Δ E	0.32	2.43	2.66		
Beige Series					Based on BEI 3480
Δ L	-0.13	1.21	1.24		
Δ a	-0.04	-0.15	-0.16		
Δ b	0.07	-0.24	-0.15		
Δ E	0.15	1.24	1.26		
White Series					Based on WHI 1020
Δ L	-0.19	-0.18	-0.66		
Δ a	-0.24	-0.23	-0.09		
Δ b	1.14	1.35	0.88		
Δ E	1.18	1.38	0.89		
					Based on WHI 1257
Δ L	-0.36	-0.23	-0.17		
Δ a	-0.24	-0.37	-0.45		
Δ b	1.19	1.66	2.03		
Δ E	1.26	1.72	2.09		

Color Change in Hunter units

UVA 340 bulb, 20 hrs light on at 50°C, 4 hrs light off at 45°C with condensation