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|------------------------------|---|
| 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 D698 | 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: 6/09/2000

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 1000 |
| 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 60°C, 4 hrs light off at 46°C with condensation