

Max Manufacturing, LLC

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TECHNICAL LETTER #2 PRODUCT CHARACTERISTICS

The MAX ® Slate recyclable roof tiles are compression molded rather than injection molded. The formula is a polymer – limestone based mixture that when processed under heat and pressure results in a durable, well defined product with distinct colors when used with our patent pending blending process.

More definitive Product Characteristics are as follows:

Non-Porous Surface

When the formulation is combined with the compression molding process a surface texture that resists the development of algae and mold is created. The results of ASTM test E-96-95 determines the product to be impermeable.

Color Through Process

The combination of the proper pigment type with the ultraviolet inhibitors, blockers and absorbers used in the mixing and blending process minimizes the color fade when the roof tiles are exposed to the elements, as indicated by ASTM test G-154 after 9,500 hours in a Xenon Arc Chamber.

Contraction and Expansion

The coefficient of movement will not exceed .06% in mass and < .1% in thickness, as indicated by ASTM test C-666.

In Service Temperature

Low temperature product application is approved when the mean ambient temperature of the roof tiles is at 32°F and above, while the high temperature product resistance can be in excess of 295°F without warping or degrading the integrity of the roof tile.

Cambered Design

This profile design provides an aggressive surface bond at the exposed edge of the roof tile and eliminates the lifting that can result when winds reach a wind speed of 110mph, as indicated by Dade County Protocol – TAS 100-95.

Durability

The mineral composition (dolomitic limestone) when combined with the polymers and enhancers under heat and pressure produces a structurally sound, well defined roof tile that when tested according to UL – 2218 and requiring a 1 ¼ lb ball to be dropped 20 feet resulted in no indentation, cracking or damage.