

MARDOM DECOR

MARDOM Sp. z o.o.

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PolyForce®

TECHNICAL DATA SHEET

1. PRODUCT IDENTIFICATION & COMPOSITION

- 1.1. MATERIAL: Foamed polystyrene.
- 1.2. CHEMICAL BASIS: Polystyrene >95%.

2. PHYSICAL & MECHANICAL PROPERTIES

- 2.1. DENSITY: ca. 450 kg/m³.
- 2.2. HARDNESS: ca. 55+ Shore D for ScratchShield® products; 40 Shore D for other products.
- 2.3. THICKNESS: Variable, ranging from 7 mm to 50 mm.
- 2.4. TEMPERATURE RANGE: -20°C to +80°C without degradation.
- 2.5. MELTING TEMPERATURE: 170 - 190°C.
- 2.6. LINEAR THERMAL EXPANSION COEFFICIENT: $40 - 60 \times 10^{-6} \text{ m/(m} \cdot \text{K)}$
- 2.7. DIMENSIONAL STABILITY: Dimensionally stable, will not alter with time. The product does not deteriorate.
- 2.8. ACOUSTICS: Polystyrene is acoustically neutral.

3. SURFACE & APPLICATION

- 3.1. PRIMER: One-component white basecoat.
- 3.2. COMPATIBILITY: The factory primer will accept any high-quality finishing paint.
- 3.3. DURABILITY: Shock and split resistant; resistant to moisture and most common solvents.
- 3.4. UV RESISTANCE: UV - resistant.

4. ENVIRONMENTAL & HEALTH SAFETY

- 4.1. VOC EMISSIONS: Very low emission class A+ (VOC 0%).
- 4.2. SUSTAINABILITY: 100% CFC-free; Ozone Depletion Factor (ODP) is 0.

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4.3. MATERIAL SAFETY:

The product is free of asbestos and cyanides.

4.4. TOXICITY:

- Low oral toxicity.
- LD 50 oral > 2 000 mg/kg.
- LD 50 dermal > 2 000 mg/kg.
- The majority of opinions suggest that the inhalation toxicity of the foam dust (inert dust) is considered low, though some authors consider that the foam dust shouldn't be regarded merely as an inert "nuisance dust".

4.5. HUMIDITY RESISTANCE:

Water absorption after 24 hours is <0.01%, with no influence on mechanical properties.

5. FIRE RESISTANCE PERFORMANCE**5.1. STANDARD MATERIAL:**

The standard material is not flame retardant. It is classified as Fire standard E - in accordance with PN-EN 13501-1+A1:2010.

5.2. ENHANCED PERFORMANCE:

Can be provided with fire standard B-s1, d0 - in accordance with EN 13501-1:2018 on demand.

5.3. FIRE FIGHTING MEASURES:

The vapor mixes with the carbon oxides.