



Durasein D.Twist

Performance Properties

(Special Thermoforming Grade)

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TECH INFO
D.Twist

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Page
01/02

Introduction

Durasein® solid surface is a homogeneous stone-like material that is non-porous and non-toxic. Durasein® is made of natural mineral (alumina trihydrate derived from bauxite) and high performance acrylic resin (polymethyl methacrylate) and pigments. Durasein® D.Twist special thermoforming product has enhanced thermoformability characteristics. Refer to Durasein® Thermoforming Bulletin No. Thermo_0323 for technical information on thermoforming and thermobending D.Twist.

Physical Properties		
Property	Test Method	Typical Result
Density	ISO 1183	1.7 g/cm ³
Approximate weight per square meter, 12mm		21 kg
Hardness – Barcol Impressor	ISO 19712-2 (ASTM D2583)	62

Mechanical Properties		
Property	Test Method	Typical Result
Flexural Modulus	ISO 178	72 Mpa
Flexural Strength	ISO 178	1.0 x 10 ⁴ Mpa
IZOD Notched Impact Strength	ASTM D256	6 KJ/m2

Fitness for Use		
Property	Test Method	Typical Result
Colourfastness	CSA B45.5-22/IAPMO Z124-2022	PASS
Colourfastness	CSA B45.5-22/IAPMO Z124-2022	PASS
Wear and Cleanability	CSA B45.5-22/IAPMO Z124-2022	PASS
Stain Resistance	CSA B45.5-22/IAPMO Z124-2022	PASS
Chemical Resistance	CSA B45.5-22/IAPMO Z124-2022	PASS
Ignition Test	CSA B45.5-22/IAPMO Z124-2022	PASS
Resistance to cigarette burns	CSA B45.5-22/IAPMO Z124-2022	PASS
Fungal Resistance	ASTM G21	ASTM Rating of 0, No observed growth on product at 100x power.
Bacterial Resistance	ASTM G22	No observed growth on product at 100x power.

*Typical performance results for 12 mm Durasein®.

Important information:

- Special grade D.TWIST PM6207 performance is in accordance with these properties.

Disclaimer:

Only fabricators experienced with the techniques, methods and equipment described in this fabrication bulletin should perform thermoforming. Durasein cannot regulate or control the adherence by a fabricator to the methods recommended in this fabrication bulletin. Therefore, Durasein does not warrant the condition of Durasein® solid surface while being thermoformed or material that has been unsuccessfully thermoformed.

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