

DURAT

DURAT SOLID SURFACE MATERIAL TECHNICAL PROPERTIES

Durat is a polyester resin based solid surface material which contains pre-consumer plastic waste.

MECHANICAL AND PHYSICAL PROPERTIES

PROPERTY	METHOD	RESULT
APPROXIMATE WEIGHT (12MM THICK DURAT)		18,3 kg / m ²
DENSITY	ASTM D792A	1,41 ± 0,01 g / cm ³
FLEXURAL STRENGTH	ASTM D 790	36,3 ± 2,6 MPa
MODULUS OF ELASTICITY (FLEXURAL)	ASTM D 790	4810 ± 50 MPa
TENSILE STRENGTH	ASTM D 638	16,1 ± 3,1 MPa
MODULUS OF ELASTICITY (TENSILE)	ASTM D 638	4780 ± 260 MPa
ELONGATION AT BREAK	ASTM D 638	0,3 ± 0,1 %
IMPACT RESISTANCE (CHARPY)	ISO 179	1,7 ± 0,5 KJ / m ²
BARCOL HARDNESS	ASTM D2583	52 ± 2
LINEAR THERMAL EXPANSION (COEFFICIENT)	ASTM D 696	72 × 10 ⁻⁶ (0,0072 % / °C)

EMISSION CLASSIFICATION OF BUILDING MATERIALS

THE BUILDING FOUNDATION RTS	CLASS M1
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Durat does not emit any toxins and has passed the Finnish standard M1 for surface materials, which tests the following substances TVOC, HCOH, NH3, IARC classified carcinogenic substances and smell.
<https://cer.rts.fi/>

SUITABILITY FOR SURFACES WHERE FOODSTUFFS ARE HANDLED

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