



ONGRODUR® BD

ONGRODUR® BD type was especially developed for construction and is recommended as the base sheet of door panels.

Its fine surface and high impact property ensure good formability and excellent quality demanded by our customers. The sheets are available in white colour.

ONGRODUR® BD type is self-extinguishing and complies with the most demanding national fire resistance standards defined in the field of plastics.

In order to protect the surface of the sheets, they are delivered with protective film layer bonded on one side.



ONGRODUR® BD

Delivery program

Colour	Unit	White
Different tones of white	mm	Thickness: 1,3 - 1,5 Sizes: 855 x 2010 975 x 2175

Technical parameters

Parameters	Unit	Types
Width	mm	855 - 1000
Tolerance of width	mm	+2,0; -1,0
Length	mm	2010 - 2250
Tolerance of length	mm	+5,0; -1,0
Thickness	mm	1,2 - 3,0
Tolerance of thickness	mm	1,3 - 1,5 +0,0; -0,1
Deviation from right angle	mm	max. 3/1000
Colour consistency*	5 years according to the third grade of grey-scale of DIN 54001	
Deviation of colour white	$\Delta E \leq 1,5$ according to the DIN 6174 standard	
Surface	silky matt	

*This colour consistency is valid to the North from the 45 degrees of latitude on a max. altitude of 800 m in Europe, only.



Advantages

- › economical
- › good mechanical properties
- › excellent vacuum formability
- › different tones of white
- › impact resistance
- › weather resistance
- › chemical resistance
- › easy to use
- › self-extinguishing

Application

CONSTRUCTION

- › door panel production

Processing advices

- › **Fabricating:**
sawing, drilling, milling
- › **Thermal Processing:**
vacuum forming
- › **Other:**
bonding

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Technical data sheet

Properties	Test Method	Unit	Ongrodur BD-24
Mechanical properties			
Density	MSZ ISO 1183	g/cm ³	1,43
Tensile strength	MSZ EN ISO 527-1,2,	MPa	> 45
Elongation at break	MSZ EN ISO 527-1,2,	%	> 25
Modulus of elasticity	MSZ EN ISO 527-1,2,	MPa	> 2500
Impact strength	MSZ EN ISO 179-2	-	no break
Impact strength at -20 °C	MSZ EN ISO 179-2	-	no break
Shore D	MSZ EN ISO 868	-	75
Thermal properties			
Vicat B	MSZ EN ISO 306	°C	74
		°F	165
Linear thermal expansion coefficient	DIN 53752	K ⁻¹ x 10 ⁻⁴	0,7
Thermal conductivity	DIN 52612	W/mK	0,2
Electronical properties			
Dielectric strength	MSZ EN 60243-1	kV/mm	23
Surface resistivity	DIN 53482	Ohm	10 ¹³
General properties			
Fire rating*	DIN 4102 (D)	-	B2
	CSE RF 3/77 (I)	-	Class2
	NFP 92-501 (F)	-	M2
	BS 476 Part7 (GB)	-	Class2
	UL 94 (US)	-	VO
Water absorption	DIN 53495	%	0,2
Working temperature range	-	°C	0 - 60
		°F	32 - 140

*On request B1, Class1, M1, Class1 available