

Decorative Panels

Paneldeko Decorative Panels are architectural design application products. They are produced to be an application solution on different types of wall and surface types to transform the appearance of the wall to the visual goal that is desired. The Panels are durable for exterior facades and interior spaces. They are very light-weight and can be applied on ceilings. The colouring agents used on the Panels are produced by Jotun© for Paneldeko. This cooperation between Paneldeko and Jotun creates the most natural colors with highly durable and UV resistant final paints. The Panels can be fitted easily by cutting or bending with proper equipment. Thanks to the R&D of Paneldeko, the physical body composition of the panels is water resistant. and durable.

General Features

- ◀ Interior and Exterior Facade and Ceiling Applications
- ◀ Water resistant body composition
- ◀ UV Resistant and highly durable colour pigments
- ◀ Depending on the model and texture; panel sizes are 130x260cm and 30x330cm (± 2 cm)
- ◀ Depending on the model and texture; panel depth is between 0.8cm-2.5cm (± 0.5 cm)
- ◀ Depending on the model and texture; one sheet of panel weights between 7-10kg/m² (± 0.5 kg)
- ◀ Depending on the model and texture; one panel is approximately 3.38m² to 4.44m² (± 0.2 m²)
- ◀ Fast and easy application
- ◀ Physically resistant and elastic
- ◀ Natural texture
- ◀ Mimics the natural product by texture and colouring
- ◀ Can be disassembled and assembled if needed
- ◀ Long lasting and environmentally friendly

Application Area Examples

- ◀ Exterior Architecture and Facades
- ◀ Interior Design
- ◀ Restaurants
- ◀ Retails and Stores
- ◀ Shopping Malls
- ◀ Offices
- ◀ Fair and Display designs
- ◀ Decoration
- ◀ Hotels
- ◀ Curtain Wall Surfacing

Composite Decorative Cladding Panel, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification Composite Decorative Cladding Panel is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Reaction to fire classification: B-s1,d0

Test Results

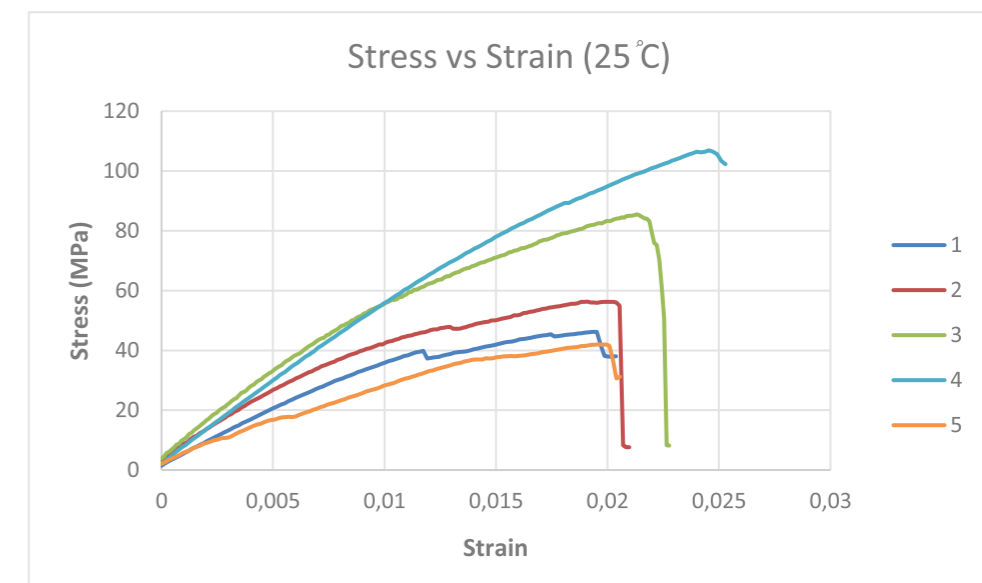
Charpy Impact Test : 33.31 kJ/m² (±6.28)

Archimedes Density Test : 1.7243 g/m³ (±0.0664)

Barcol Hardness Test (25°C): 41.6 (±3.66)

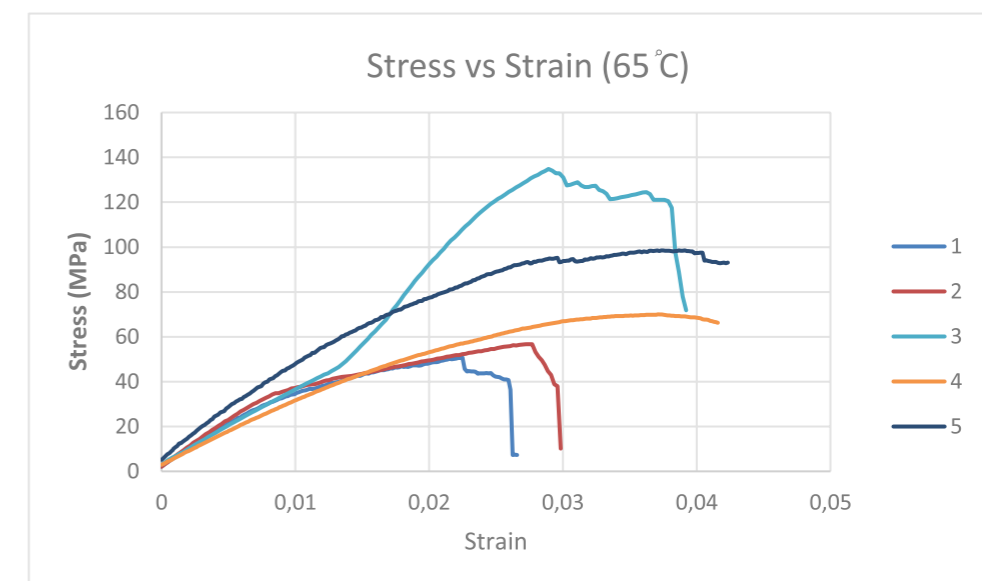
Flexural Test 25°C (ASTM D 790):

Flexural Strength MPa 69.14 (±24.35) / Elastic Modulus GPa 4.82 (±1.10)



Flexural Test Thermal Aging 65°C, 1 Week (ASTM D 790):

Flexural Strength MPa 66.04 (±38.99) / Elastic Modulus GPa 3.93 (±0.73)

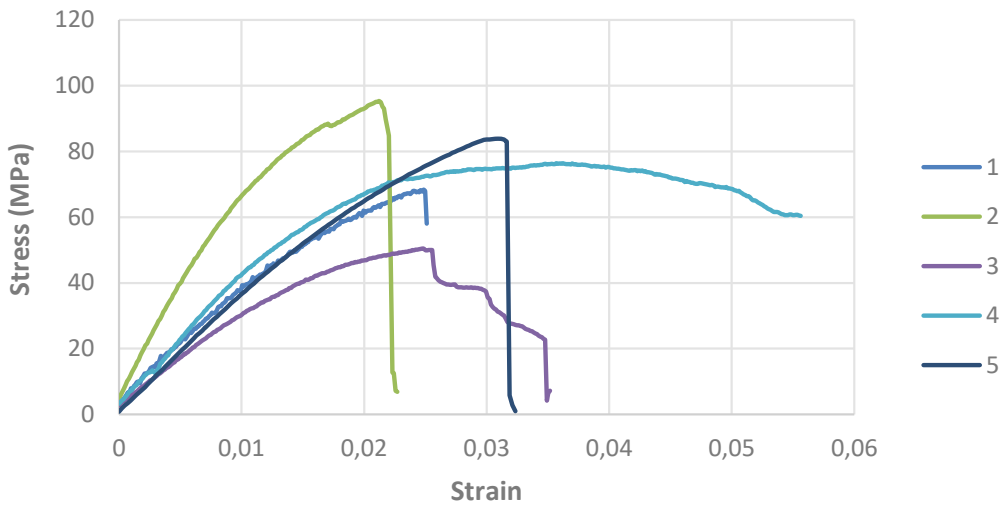


Test Results

Flexural Test -18°C, 1 Week (ASTM D 790):

Bending Strength MPa 74.46 (±15.08) / Elastic Modulus GPa 4.41 (±1.53)

Stress vs Strain (-18°C)



Shear Response (ASTM D3518):

Shear Strength MPa 11.55 (±1.41) / Shear Modulus of Elasticity MPa 3.01 (±0.73) / Offset Shear Strength(%) 0.46 (±0.48)

Force vs Elongation

