

LAMINATES WITH HIGH STRENGTH "HR" MATTING

GENERAL DESCRIPTION

Versatile laminate with superior mechanical properties. The "HR" laminate from Vetroresina, has exceptional impact resistance combined with high strength performance, all at an exceptionally low weight. It is available in a wide range of RAL colours and also in custom colours. In general this laminate offers:

- Good resistance to atmospheric agents
- High UV stability
- Good impermeability
- Good chemical resistance
- Good electrical insulation
- Good abrasion resistance
- Easy cleaning
- High impact resistance
- High load resistance

SUGGESTED APPLICATIONS

Commercial vehicles: production of panels for interior walls, doors and floors

Buses: production of interior and exterior walls and floors

Refrigerated vehicles: production of panels for interior and exterior walls, doors and floors

Construction industry: production of panels for walls and floors

Cold rooms: realization of panels for internal and external walls and doors

Workshops/mobile clinics: realization of panels for internal and external walls, doors and floors

MAIN FEATURES

Fibre	WOVEN ROVING	
Thickness	mm	1.3 with gelcoat 1.1 without gelcoat
	inch	0.050 with gelcoat 0.043 without gelcoat
Weight	kg/ m ²	2.1 with gelcoat 1.65 without gelcoat
	Lb/sqft	0.43 with gelcoat 0.23 without gelcoat
Finishing	external	- glossy and matt gelcoat - no gelcoat
	back	- sanded - mechanically sanded

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SPECIFIC PROPERTIES

<i>Properties</i>	<i>Method</i>	<i>Results</i>
Free styrene content	EPA 8015D	< 1% by weight
Thermal conductivity	ISO 8302	0,065 W/mK
Resistance to vapour flow	UNI EN 12086 :1999	50.000μ<math><90.000</math>
Operating temperature	-	-20°C up to 50°C -4°F up to 122°F
Food contact	Directive 2002/72/CE	Suitable
Water absorption	Internal method	<0,5% by weight
Mechanical Properties	LINK data sheet	

FORMATS

	<i>length</i>	<i>width</i>	<i>Tolerance</i>
ROLLS	Max 60 m	Max 2800 mm	Width: \pm 2mm
	Max 200ft	Max 134 inches	Width: \pm 0.08 inches
SHEETS	On request	Max 2800 mm	Length: \pm 3mm Width: \pm 3mm
	On request	Max 134 inches	Length: \pm 0.12 inches Width: \pm 0.12 inches

STORAGE AND USE

For optimal use, the material (also with protective film) must be stored in a dry and weatherproof place. Before use, it is advisable to condition the material at room temperature for 24 hours.

The protective film can be kept until the end of the production cycle to protect the surface from scratches and processing defects. However, it must be removed before outdoor exposure as it is not intended for protection against corrosion, humidity or chemicals.

The material must be handled by means appropriate to the size and shape of the product, paying particular attention to the edges. The use of forklifts with grippers is recommended for handling rolls.

Clean the laminates with a soft cloth, water and a neutral detergent. In case of stubborn dirt, even oil and grease - it may be useful to use soapy hot water (40-45 °C or 100-115 °F). **Never use detergents and products containing organic solvents, alcohol or ammonia** as aerosols and vapours may also damage the product.