



R49



ENGINEERED POLYMER SHEETS



CAMPI DI UTILIZZO: Particolarmente indicata per la protezione delle pareti dai graffi o da urti leggeri. Si adatta armoniosamente a qualsiasi tipo di arredamento. Può essere lavorata ad onde o a disegno.

DESCRIZIONE: Lastre R49 realizzate in blend di polimeri plastici autoestinguenti. Disponibili in una vasta gamma di colori, sono resistenti agli urti, ai graffi, facili da pulire e forniscono un'ottima finitura durevole nel tempo. Superficie goffrata.

Spessori disponibili 1 - 1,5 - 2 mm.
Dimensione pannelli 1220x2440 mm

Proprietà di resistenza al fuoco - Il prodotto soddisfa i seguenti criteri: BS476 Parte 7 Classe 1 - EN13823 BS2D0.

Lotti minimi di produzione: 120 pannelli in spessore 1 mm - 80 pannelli in spessore 1.5 mm - 60 pannelli in spessore 2 mm - * unico colore *



USE: Suitable for wall cladding for scratches protection and light bumps.

DESCRIPTION: R49 are made from blend of fire retardant plastics polymers. Available in an extensive range of colours, these materials are resistant to impacts and to scratches, easy to clean and resistant to staining, providing a beautiful finish that lasts. Surface in embossed view.

Available thickness 1 - 1,5 - 2 mm.
Dimensions sheet 1220x2440 mm

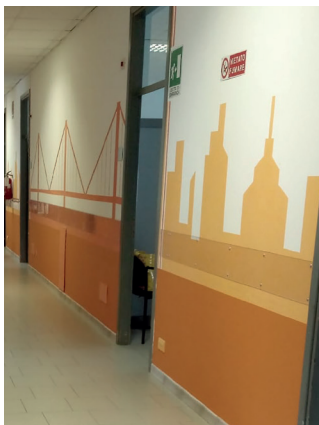
Flame Resistance Properties - The product will meet the following criteria: BS476 Part 7 Class 1 - EN13823 R49 BS2D0.

Minimum production block: 120 sheets thickness 1 mm - 80 sheets thickness 1.5 mm - 60 sheets thickness 2 mm (only 1 color)

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Azienda con Certificazione di Qualità
Uni En ISO 9001:2015
Certificato n. 9160.TEKL



Typical Physical Properties

Properties	Unit	Standard	Method	Value
Density #	g/cm ³	ISO1183	-	1.40
Drop Weight	J	ISO 6603-1	A at 23°C	70
Impact				
Tensile Strength	MPa	ISO 527	50 mm/min	35
Vicat Softening Point	°C	ISO 306	A50/oil	75
Heat Distortion Temperature	°C	ISO 75	HDT/A 1.8MPa	60
Flammability Rating **	mm	UL94	V0	1.0
Flammability Rating	mm	BS 476 Part 7	Class 1	1.0
Flammability Rating	mm	Epiradiateur CSTB	M1	1.0
Flammability Rating	mm	EN 13501	Bd0S2	1.5

#The density quoted should only be used as a guide. This value can change depending upon the type and quantity of pigments or additives used.

UL 94 V0 Flammability Ratings are only indicative.

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PVC epsotech™ R49 9849
Product Datasheet R49
Version 3 01/09/2018

Description
Impact modified PVC (Polyvinylchloride) has been developed to produce a light weight, tough, flame resistant material. Available in an extensive range of colours and finishes these materials are easy to clean and is resistant to staining, providing a beautiful finish that lasts. (Antimicrobial options are also available). Designed to meet EN 13823 Bd0S2.

Applications
Cladding, construction, industrial, bumper rails.

Key Features

Flame Resistance Properties
The product will meet the following criteria:
UL94: V0 at 1.0mm and above.
BS 476 Part 7, Class 1 1.0mm and above.
Epiradiateur CSTB M1 1.0mm and above.
EN 13823 Bd0S2 1.50mm and above.

Conversion
Easy material to handle and convert.
Glazing: Hot-melt or solvent-based glaze.
Cutting: Guillotine, Band-saw, Circular-saw, Routing.
Welding: Thermal, Ultrasonic and Hot Gas.
Not suitable for thermoforming but can be hot line bent.

Product Availability

Colour
Standard range of colours and customer colour matches.

Finish
A range of embossed finishes.

Thickness
1 mm to 5 mm.

Sheet Size Specifications

Gauge	Width
1 mm – 5 mm	500 mm – 1500 mm

NB - available sizes may vary depending on gauge, colours, embosses and order size, please ask confirmation to sales department.

Alternative Solutions

epsotech R57 9557: ABS/PVC blended sheet.
epsotech R59M 9559: UL Certified Flame retarded ABS.

Disclaimer The information contained in this leaflet is based on our present technical knowledge and experience. In view of the large number of factors that may influence the processing and use of our products, the information does not relieve the processors and manufacturers of the need to carry out their own tests and experiments. Our information does not constitute a legally binding assurance of product availability, of particular properties or of a suitability for a particular use. Patent rights that may exist must be duly observed.

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Additional Information

Thermoforming
Not suitable for thermoforming.

Storage
If sheet is stored in humid conditions for long periods then it should be dried before thermoforming, ideally at 80°C for approximately 2 hours, plus an additional hour for every 1 mm thickness. It is essential that enough space be left between the sheets (20-30mm) to allow correct drying. The time lapse between drying and forming should be minimised in order to save energy and reduce heating times. If sheets are left to stand at room temperature for a long period of time they may need to be redried.

Certification/Approvals
The following approvals are only available on request: ROHS: European Legislation 2002/95/EC.

UV Resistance
Natural PVC when exposed to direct UV may discolour and become brittle, over a short period of time. Black pigmented sheet will improve UV resistance. An addition of a UV stabiliser can further improve its longevity. For significantly higher protection than alternatives like PMMA (Acrylic) capped ABS (epsotech Sun 6700) and ASA capped ABS (epsotech W 6610) should be considered.

Cleaning and Maintenance
Most common soaps or detergents dissolved in warm water can be used to effectively clean general dirt and surface contaminants. More stubborn solvent based markings i.e. ink, marker pen, etc. Can be removed using detergents but will probably require the stiff bristled brush or slightly abrasive pad to remove stains or markings if material is affected deep in the surface emboss. If the above doesn't work then try iso-propyl-alcohol or n-heptane. Abrasive scouring powders should be avoided. Areas of mouldings that have been dulled through cleaning can be restored using silicone based polishes.

Chemical Resistance

Chemical resistance is influenced by many factors, including concentration, temperature, exposure time and material stress. Therefore the data below should only be used as a guide.

Reagent	Chemical resistance	Reagent	Chemical resistance
Acetone	Not recommended	Brake Fluid	Not recommended
Acid - (Weak)	Good	Butter	Good
Acid - (Strong)	Good	Coffee	Excellent
Alcohol	Good	Detergent	Excellent
Anti-freeze	Excellent	Diesel	Good
Base (Weak)	Excellent	Foodstuffs	Good
Base (Strong)	Good	Lubricating Oil	Very good
Battery Acid	Good	Petrol	Good

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