## Technical datasheet for: epsotech PV MB2 SE

#### **Overview and Structure**

epsotech PV MB2 SE is a single layer PVC alloy with an anti-microbial formulation, engineered especially for wall/door protective cladding and bumper rail architrave in the construction industry.

PV MB2 SS contains an antimicrobial additive based on silver ion technology and meets ISO 22196.

## **Typical Physical Properties**

Value	Unit	Standard	Test Method
1.4	g/cm3	ISO 1183	-
-	MPa	ISO 527	23°C 1mm/min
35	MPa	ISO 527	23°C 50mm/min
-	%	ISO 527	23°C 50mm/min
-	%	ISO 527	23°C 50mm/min
70	J	ISO 6603-1	A 23°C
75	°C	ISO 306	A/50
60	-	ISO 75	A, 1.8 MPa
Class 1		BS 476 part 7	1.0 mm and above
V0	-	-	1.0 mm and above
M1		Epiradiateur CSTB	1.0 mm and above
Bd0S2		EN 13501	1.5 mm and above
Pass	-	ISO 22196	-
-	%	-	-
-	°C	-	-
	Value Value  1.4  1.4  - 35  35  70  70  75  60  Class 1  V0  M1  Bd0S2  Pass	Value         Unit           1.4         g/cm3           1.4         g/cm3           -         MPa           35         MPa           -         %           -         %           70         J           70         J           75         °C           60         -           75         °C           60         -           70         J           75         °C           60         -           70         J           75         °C           60         -           70         J           75         °C           60         -           7         -           60         -           7         -           60         -           7         -           60         -           7         -           60         -           7         -           7         -           7         -           7         -           7         -	Value         Unit         Standard           1.4         g/cm3         ISO 1183           1.4         MPa         ISO 527           35         MPa         ISO 527           35         MPa         ISO 527           -         %         ISO 527           -         %         ISO 527           70         J         ISO 6603-1           70         J         ISO 6603-1           75         °C         ISO 306           60         -         ISO 306           61         -         ISO 306           62         -         ISO 306           7         V0         ISO 306           7         V0         -      <

Unless otherwise stated, products are tested at a typical thickness of 4mm

\* 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.

# **Supplemental Information**

### **Chemical Contact and cleaning**

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

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

Most common mild soaps or detergents dissolved in warm water can be used to effectively clean general dirt and surface contaminants, but in all cases should be objectively tested. Abrasive products will damage the surface.

### **Storage and Drying**

If sheet is stored in humid conditions for long periods then it should be dried before thermoforming, ideally at 80oC 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.

#### **Dimensional Tolerances**

Standard tolerances are subject to the local standard tolerance set. Extra tolerance requirements may be possible on request and by special agreement

#### **Product Modification**

Product code nomenclature takes in to account selected primary features of a product. The suffix may indicate a primary additional functionality, however, further multiple modifications are almost always possible and may be agreed upon and specified prior to our technical and commercial offer. Such enhancements are a normal part of our service capability and they do not affect the general characteristics listed in technical datasheets.

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