

Technical Datasheet for: epsotechPV RA1 D6

Overview and Structure

epsotech PV RA1 D6 is a single layer PVC engineered especially for aircraft interiors.

Typical Physical Properties

Property	Value	Unit	Standard	Test Method
GENERAL PROPERTIES:				
Density*	1.58	g/cm3	ISO 1183	-
MECHANICAL PROPERTIES:				
Tensile E-Modulus	3667	MPa	ISO 527	23°C
Tensile Strength at Break	25	MPa	ISO 527	23°C
Elongation at break	13.7	%	ISO 527	23°C
Tensile Yield	31.7	MPa	ISO 527	23°C
THERMAL PROPERTIES:				
VICAT softening Point	70	°C	ISO 306	B/50
BURNING BEHAVIOUR:				
CS/FAR 25.853	PASS		(a)(1)(i)	60 second vertical
CS/FAR 25.853	PASS		(a)(1)(ii)	12 second vertical
CS/FAR 25.853	PASS		(IV)	Heat Release
CS/FAR 25.853	PASS		(V)	Smoke Density Flaming
ABD 0031	PASS **		AITM 3.0005	Toxic Gas Emissions
MISCELLANEOUS:				
Mould Shrinkage	0.5 - 0.7	%	-	General test method
Thermoforming Temperature	170 – 210	°C		Heater type dependant

Unless otherwise stated, products are tested at a typical thickness of 3mm

* 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.

** Toxic Gas Emissions pass except HCL, HF

Chemical Contact and cleaning

Reagent	Chemical resistance		Reagent	Chemical resistance
Acid – (Weak)	Good		Butter	Excellent
Acid – (Strong)	Good		Coffee	Excellent
Alcohol	Good		Detergent	Excellent
Anti-freeze	Excellent		Diesel	Good
Base (Weak)	Excellent		Foodstuffs	Good
Base (Strong)	Excellent		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

Long storage times in humid conditions may require a product to be dried, e.g. 80°C for 2 hours +1hr per additional mm of thickness. Space must be left between sheets to allow correct drying.

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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