

Technical datasheet for: epsotech PP HS0 V0

Overview and Structure

epsotech PP HS0 V0 is a low thickness Polypropylene compliant to UL94 V0, available as 0.43mm and 0.75mm sheets with a high quality matt finish.

This product is easy to crease and fold with excellent low fatigue characteristics, giving a long and reliable service life. It is an excellent alternative to Polycarbonate in power conversion equipment, when used as insulation barriers due to its high dielectric strength and low moisture absorption.

Typical Physical Properties

Property	Value	Unit	Standard	Test Method
GENERAL PROPERTIES:				
Density*	1.54	g/cm ³	ISO 1183	-
MECHANICAL PROPERTIES:				
Tensile Modulus	TBC	MPa	ISO 527	23°C 1mm/min
Yield stress	TBC	MPa	ISO 527	23°C 50mm/min
Elongation at Yield	TBC	%	ISO 527	23°C 50mm/min
Elongation at Break	TBC	%	ISO 527	23°C 50mm/min
Charpy (notched)	TBC	KJ/m ²	ISO 179	23°C, 1eA
Charpy (un-notched)	TBC	KJ/m ²	ISO 179	23°C, 1eU
THERMAL PROPERTIES:				
VICAT softening Point	TBC	°C	ISO 306	B/50
HDT-A	-	-	-	-
UV STABILISATION:				
-	-	-	-	-
BURNING BEHAVIOUR:				
UL94	TBC			0.43 mm and 0.75mm
Hot Wire Ignition	TBC			
SURFACE/VOLUME:				
RTI	TBC			
Volume Resistivity	146 x 10 ¹⁵	Ω-cm	IEC 62631-3-1	
MISCELLANEOUS:				
Mould Temperature	-	°C	-	Guidance on request
Thermoforming Temperature	-	°C	-	Guidance on request

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	Good		Coffee	Excellent
Alcohol	Good		Detergents	Excellent
Aliphatic Hydrocarbons	Good		Foodstuffs	Excellent
Aromatic Hydrocarbons	Fair		Grease	Fair

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

PP has a very low moisture absorption, therefore pre-drying is not normally required

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.

Disclaimer:

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