

## Technical datasheet for: epsotech PS HS0 RS, epsotech PS HS1 RS

### Overview and Structure

epsotech PS HS0 RS is a single or multi-layer product made from recycled High Impact Polystyrene (HIPS), supplied as rolls.  
 epsotech PS HS1 RS is a single or multi-layer product made from recycled High Impact Polystyrene (HIPS), supplied as sheets.

Both have a handling tray stripe, colour and position according to customer requirement.

### Typical Physical Properties

Property	Value	Unit	Standard	Test Method
<b>GENERAL PROPERTIES:</b>				
Density*	1.06 (+/- 0.06)	g/cm <sup>3</sup>	ISO 1183	-
<b>MECHANICAL PROPERTIES:</b>				
Flexural Modulus	1500	MPa	ISO 178	23°C
Yield stress	18	MPa	ISO 527	23°C
Elongation at yield	-	%	ISO 527	23°C
Charpy (notched)	≥5	KJ/m <sup>2</sup>	ISO 179	23°C, 1eA
Charpy (notched)	-	KJ/m <sup>2</sup>	ISO 179	-30°C, 1eA
Charpy (un-notched)	-	-	-	-
Charpy (un-notched)	-	-	-	-
<b>THERMAL PROPERTIES:</b>				
VICAT softening Point	-	°C	ISO 306	B/50
HDT-A	-	°C	ISO 75	A 1.8Mpa un-annealed
<b>UV STABILISATION:</b>				
UV Stabilisation	Optional	-	-	According to customer requirement
<b>BURNING BEHAVIOUR:</b>				
Burning Rate**				
Flammability Rating				
Flammability Rating UL**	-	-	-	-
<b>SCRATCH/SURFACE:</b>				
<b>MISCELLANEOUS:</b>				
Mould Shrinkage	0.5 - 0.7	%	-	-
Thermoforming Temperature	180 – 210	°C	-	-

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

<sup>1</sup> The impact values stated indicate the range that this grade meets and *depends on thickness of the sheet, plus actual material grades selected in each layer for every customer's project – typically customised*. Mechanical suitability for each formulation should be evaluated based on the material delivered.

\* 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.

\*\* Fire behaviour values given by raw material supplier or by indicative test on raw material. Not intended as a specification.

## Supplemental Information

### Chemical Contact and cleaning

Chemical resistance is influenced by many factors, including concentration, temperature, exposure time and material stress. 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.

#### Disclaimer:

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