

## Technical datasheet for: epsotech PP CR0 EC; epsotech PP CS0 EC

### Overview and Structure

epsotech PP CR0 EC is a copolymer Polypropylene, supplied in reeled format, or, epsotech PP CS0 EC in sheet format. This product has excellent chemical and heat resistance, is permanently anti-static and, has very low moisture permeability. Approvals for food and toy contact are available on request.

### Typical Physical Properties

Property	Value	Unit	Standard	Test Method
<b>GENERAL PROPERTIES:</b>				
Density*	0.96	g/cm3	ISO 1183	-
<b>MECHANICAL PROPERTIES:</b>				
Yield stress	23	MPa	ISO 527	23°C 50mm/min
Elongation at Break	25	%	ISO 527	23°C 50mm/min
Charpy (notched)	29	KJ/m <sup>2</sup>	ISO 179	23°C, 1eA
Charpy (notched)	-	KJ/m <sup>2</sup>	ISO 179	-30°C, 1eA
<b>THERMAL PROPERTIES:</b>				
VICAT softening Point	126	°C	ISO 306	B/50
HDT-A	75	°C	ISO 075	HDT/A 1.8 MPa
<b>UV STABILISATION:</b>				
UV Stabilisation	Optional	-	-	According to customer requirement
<b>BURNING BEHAVIOUR:</b>				
Burning Rate	-	-	-	-
Flammability Rating	-	-	-	-
Flammability Rating UL**	-	-	-	-
<b>SURFACE/VOLUME:</b>				
Volume resistivity lvl 1	10 <sup>2</sup> - 10 <sup>4</sup>	Ω/sq	EN 61430	5-1
<b>MISCELLANEOUS:</b>				
Mould Shrinkage	1.4 – 2.0	%	-	-
Thermoforming Temperature	-	°C	-	-

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.

\*\* 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

Reagent	Chemical resistance		Reagent	Chemical resistance
Acetone	Very good		Chloroform	Good
Acid – (Weak)	Excellent		Citric Acid Solution	Good
Acid – (Strong)	Very good		Anti-freeze	Excellent
Apple juice	Very good		Detergents	Good
Beef Fat	Very Good		Dairy Products	Good
Butter	Good		Diesel	Good
Base (Weak)	Excellent		Ethyl Alcohol	Good
Base (Strong)	Good		Fertilisers	Good
Carrott Juice	Excellent		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

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.

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