

Technical datasheet for: epsotech PP CR2 NC; PP CS2 NC

Overview and Structure

epsotech PP CS2 NC is a block copolymer Polypropylene, supplied in sheet format. It is filled to 20% by weight with high quality talc, to improve stiffness and processing during vacuum forming

Rolls format: epsotech PP CR2 NC

Typical Physical Properties

Property	Value	Unit	Standard	Test Method
GENERAL PROPERTIES:				
Density*	1.045	g/cm ³	ISO 1183	-
MECHANICAL PROPERTIES:				
Tensile Modulus	1800	MPa	ISO 527	23°C 1mm/min
Yield stress	>18	MPa	ISO 527	23°C 50mm/min
Elongation at Yield	>2.5	%	ISO 527	23°C 50mm/min
Elongation at Break	-	%	ISO 527	23°C 50mm/min
Charpy (notched)	-	KJ/m ²	ISO 179	23°C, 1eA
Charpy (notched)	-	KJ/m ²	ISO 179	-30°C, 1eA
Charpy (un-notched)	-	-	-	-
Charpy (un-notched)	-	-	-	-
THERMAL PROPERTIES:				
VICAT softening Point	145	°C	ISO 306	B/50
HDT-A	-	°C	ISO 075	HDT/A 1.8 MPa
UV STABILISATION:				
UV Stabilisation	Optional	-	-	According to customer requirement
BURNING BEHAVIOUR:				
Burning Rate				
Flammability Rating				
Flammability Rating UL**	-	-	-	
SURFACE/VOLUME:				
MISCELLANEOUS:				
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		Beer	Excellent
Acid – (Weak)	Excellent		Brake Fluid	Very good
Acid – (Strong)	Very good		Coffee	Excellent
Alcohol	Very good		Detergent	Excellent
Anti-freeze	Excellent		Diesel	Good
Base (Weak)	Excellent		Foodstuffs	Excellent
Base (Strong)	Good		Lubricating Oil	Good
Battery Acid	Very 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

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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Edition 1, September 2019

Published by epsotech Holding GmbH, Im Reinfeld 2, Jülich Kirchberg, 52428 Germany