

PURASORB® PC 12

Product specification data sheet

Rev. No. 2 / April 2021

Description PURASORB PC 12 is a GMP grade homopolymer of ϵ -caprolactone with an inherent viscosity midpoint of 1.2 dl/g. It is supplied in the form of white to light tan granules. PURASORB PC 12 is primarily used for medical device applications and is suitable for all commonly used polymer processing techniques.

Chemical composition	Polycaprolactone
Material numbers	1001013510 / 1001013521 (1850001)
Molecular formula	$(C_6H_{10}O_2)_n$
Chemical name	poly[2-oxepanone]
CAS Registry number	24980-41-4

Test	Method	Specification
Appearance	Visual test	White to light tan granules
Identity	FTIR spectroscopy	Conforms to reference
Inherent viscosity	Viscometry Chloroform, 25 °C, c = 0.1 g/dl	1.00 - 1.30 dl/g
Water	Coulometric titration	max. 0.50 %
Tin	ICP	max. 100 ppm
Residual solvent, total	GC, headspace	max. 0.10 %
Residual monomer, total	GC	max. 0.50 %
Elemental impurities	USP method 232	max. 10 ppm

Packaging PURASORB PC 12 can be supplied in 1 kg packages. Our standardized packaging consists out of four protective layers, an inner layer of clean room grade PE bag, an outer bag of aluminum coated polyester-PE laminate, inserted in the additional bag of PE for extra protection and shipped in sealed PE containers.

Storage & Handling

When stored in the original packaging at low temperatures (-15°C), PURASORB PC 12 keeps its initial properties for five years (expiry date).

Stability studies indicate that, when stored in the original packaging at room temperature, PURASORB PC 12 keeps its initial properties for at least one year.

Please refer to our current stability statement for most up to date information on storage stability.

Allow the material to reach room temperature before opening the packaging. After opening the original packaging PURASORB PC 12 is best stored in an inert atmosphere and at low temperatures (-15°C).
