

Technical data sheet

Issued by: Cerdia Service GmbH

Date: 09/03/2022



Cerdia® Cellulose Acetate Hollow Fiber

Mechanical Properties

Characteristics	Unit	X
Titer of filament *)	dtex	21
Hollow area (uncrimped)	%	65 - 75
Capillarity (during 15 min)	mm	130
Tenacity *)	cN/tex	0,15 - 1,0
Fiber length (long)	mm	30 - 120
Fiber length (short)	mm	1 - 30
Finishing (oil content)	%	0,90 - 1,20

*) The characteristics were measured before the cutting process.

Thermal Properties

Characteristics	Unit	X
Softening Temperature	°C	184 - 190
Melting Temperature	°C	255 - 260
Auto - Ignition Temperature	°C	475

Fire Behavior	
In open flame	Inflaming
After removal of open flame	burning further
Odor	biting sour
Melt	melts
Oxygen Demand (LOI)	% 18-19

Creep rupture strength in % of the strength	Unit	X
In hot air at 120°C	%	55-70 (100h)
In hot steam at 120°C	%	40-60 (1h)

The information provided in this Technical Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty, warranty of fitness for a particular purpose or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring it is in conformity with all regulations linked to its activity.

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Physical Properties

Characteristics	Unit	X
Density	g/cm ³	1,32
Refractive Index <ul style="list-style-type: none">• Parallel• Perpendicular		1,478 1,473
Dielectric Constant at 50 Hz		4,5 - 6,5
Dielectric Constant at 106 Hz		4,0 - 5,5
Dielectric Loss Factor tan δ at 50 HZ		0,007
Dielectric Loss Factor tan δ at 106 HZ		0,026
Specific Resistivity at 45 % rel. humidity	O*cm	10 ¹²
Specific Resistivity at 95% rel. humidity	O*cm	10 ⁷
Electrostatic Charge at 21°C/65% rel. humidity		low
Electrostatic Charge at 24°C/95% rel. humidity		medium
Specific Heat Capacity	kJ/kg*K	1,3 - 1,5

Hydrophilic Properties

Characteristics	Unit	X
Moisture Absorption		hydrophilic
<ul style="list-style-type: none">• 21°C / 65 % rel. humidity	%	6 - 7
<ul style="list-style-type: none">• 24°C / 95 % rel. humidity	%	13 -15
Water Retention	%	20 - 28

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