

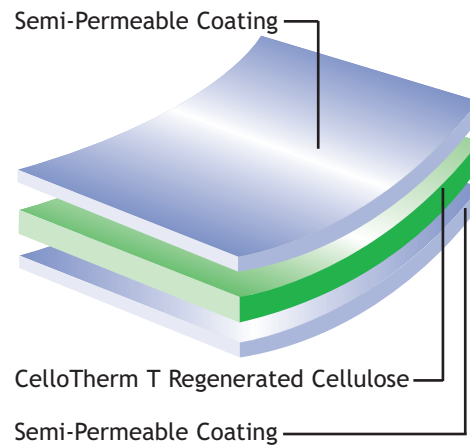
# CelloTherm™ T

Data

## Features - CelloTherm T Film

Regenerated cellulose film (RCF), coated on both sides.

- Heat-sealable on both sides
- Wide heat-sealing range
- Intermediate barrier to water vapour, excellent barrier to gases, aromas and bacterial contamination
- Self-venting or peelable seals
- Anti-static
- Resistant to oils and greases
- Both sides of the film are equally receptive to inks, adhesives and tear-tapes
- Heat resistant
- Very high gloss and transparency
- Biodegradable base film
- Microwaveable and ovenable



## Applications

CelloTherm T is microwaveable and ovenable. It has been designed to withstand the temperature 200°C for 30 minutes. Its semi-permeable coating allows a certain degree of product ventilation, which reduces moisture build-up and steam in the pack.

This film is ideal for pies, pastries, popcorn, quiches and other baked goods that require re-heating. CelloTherm T can be used on both vertical and horizontal form-fill-seal machinery. CelloTherm T also provides a barrier to bacterial contamination.

## Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	Values	
				335	430
Thickness	Innovia Films test		micron	23.3	29.9
Yield	Innovia Films test		m <sup>2</sup> /kg g/m <sup>2</sup>	29.9 33.5	23.3 43.0
Permeability to: Water vapour Oxygen	ASTM E 96	38°C 90% RH	g/m <sup>2</sup> .24 hrs	370	
	ASTM F 1927	23°C 0-5% RH	cc/m <sup>2</sup> .24 hrs. bar	3	
Optical: Gloss Haze (wide angle)	ASTM D 2457	45°	units	95	
	ASTM D 1003	2.5°	%	3	
Coefficient of friction (film to film)	ASTM D 1894	Static Dynamic		0.25 0.20	
Tensile strength	ASTM D 882		MN/m <sup>2</sup> MD TD	125 70	
Elongation at break	ASTM D 882		% MD TD	22 70	
Elasticity modulus (1% secant)	ASTM D 882		MN/m <sup>2</sup> MD TD	>3000 >1500	
Sealing range	Innovia Films test	0.5 secs; 69 kN/m <sup>2</sup>	°C	100-160	
Seal strength	Innovia Films test	135°C; 0.5 secs; 69 kN/m <sup>2</sup>	g(f)/38mm	220	

All properties are tested under standard laboratory conditions: 23± 2°C; 50±5% RH, unless otherwise stated.

MD Machine Direction TD Transverse Direction

Ref A395 - 1 of 2 - Edition UK - 0207

# CelloTherm™ T Data

## Reel Specifications

### Nominal Reel Diameters

Film	Length/(metres)			
	335 CelloTherm T	1600	3200	6400
430 CelloTherm T	1250	2500	5000	7500
Outside Diameter for 77mm Core	240mm	330mm	450mm	ns
Outside Diameter for 153mm Core	ns	355mm	475mm	570mm

ns = non-standard

Other reel lengths are available subject to negotiation.

### Sheets

We can provide sheets to a range of sizes and shapes upon request.

## Film Storage

To maintain the high quality of this product during storage it is recommended that CelloTherm T should be stored in its original wrapping away from any source of local heating or direct sunlight.

Recommended conditions of storage are:

Temperature: 17-23°C

Relative Humidity: 35-55%

CelloTherm T is suitable for use for 6 months from the date of delivery and stocks should be used in rotation.

Films should be allowed to reach operating room temperatures for 24 hours before use.

## Food Contact

CelloTherm T is suitable for use with a variety of foodstuffs in ambient, microwave and conventional oven applications. For specific enquiries, please contact our Technical Services Department.

## Health & Safety Guidelines

For Health and Safety information, please refer to literature reference A190.



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