

TECHNICAL DATA

Item	Measuring Conditions	Unit	FLO21 - LD	FLO21 - OW	FLO21 - VC	FLO21 - F3
			No. 2	No. 2	No. 3 No. 4 No. 5	No. 4
Thickness		microns	25	25	30,40,50,70,90	40
Tensile Strength	L/T 23°C 50% R.H.	kgf/mm ²	12/10	12/10	12/10~13	10/10
Ultimate Elongation	L/T 23°C 50% R.H.	%	140/110	140/110	140~200 110~140	170/150
Secant Modulus	L/T 23°C 50% R.H.	kgf/mm ²	50/50	60/60	55~65 55~65	40/35
Haze	L/T 23°C 50% R.H.	%	2	3	3~9	6
Gloss	L/T	%	140/130	140/130	120~140 110~130	130/120
Shrink	L at 90°C T at 160°C	%	25/30	55/55	35/40	40/45
Barrier						
- Water vapour	40°C 90% R.H.	g/m ² day	30	30	9~25	17
- Carbon dioxide	23°C 80% R.H.	cc/m ² day bar	175	175	90~125	800
- Oxygen	23°C 80% R.H.	cc/m ² day bar	35	35	18~25	120

Note: The above is typical data and is offered as a guide. It does not imply any guarantee of performance. Please use this data to select the most suitable KREHALON product for you to evaluate on your product and in your conditions of use.

L/T = Longitudinal and Transversal values where applicable.



FLO 21 FILMS



Krehalon®

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FLO21

KREHALON FLO21 films are multilayer heat shrinkable films designed using innovative proprietary technology. Their structure enables a unique combination of gas and moisture barrier with excellent sealability and machinability. KREHALON FLO21 films help to meet environmental concerns for non-chlorine containing materials and less packaging waste. With its barrier shrink and special optical properties FLO21 brings protection as well as glass-like, clear presentation to all of your products.



KREHALON FLO21 films have been developed for use on several types of packaging systems. Firstly on flow wrapping machines for either tray overwrap MAP packages or vacuum packaging. Secondly FLO21 can be used as a lidding material on MAP barrier trays both preformed and thermoformed in line. KREHALON FLO21 films are designed for the packaging of fresh meat, processed meat, cheese, fish, poultry and game.

KREHALON FLO21 FILMS

Availability

KREHALON FLO21 films are available as a transparent film on reels. FLO21 is available in several types depending on the application and use. These types are as follows:

1 FLO21-LD

For lidding of MAP packs on tray sealers or thermoforming machines, film will always be supplied with anti-fog (AF) treatment.

2 FLO21-OW

For tray overwrap/flow pack systems, film will always be supplied with anti-fog (AF) treatment.

3 FLO21-VC

For use on flow wrap machines for vacuum packaging i.e. bag replacement.

4 FLO21-F3

A modified barrier film for cheese packing and for other products requiring gas release.

Available widths

KREHALON FLO21 films can be slit into single wound films from 100mm to 980mm wide in 5 mm increments. FLO21 film is wound on paper cores. Paper cores can be either 76mm or 152mm to suit the packaging machine requirements. Core size needs to be specified when ordering.

Available thickness and roll sizes

Seven thicknesses of films are available as shown below:

Thickness type	Approx. thickness microns
No. 2	25 micron
No. 3	30 micron
No. 4	40 micron
No. 5	50 micron
No. 7	70 micron
No. 9	90 micron

NB: Please note all types may not be available in all the above thicknesses or may require minimum extrusion quantities.

Packaging

To prevent damage during shipping, but to limit excessive packaging materials, all KREHALON FLO21 film is packed on overwrapped pallets.

The normal sales unit is therefore by pallet quantities.

The amount of film per pallet depends on the slit width and is available upon request.

Important notes

Recommended shrink temperature for hot air tunnels is 200°C. For hot water shower or dipping 95°C is recommended.

The ideal storage temperature is 20-25°C with an ideal R.H. of 50-60%. Temperature should not exceed 30°C.

Avoid direct sunlight and contact with radiators and heating pipes.

ADVANTAGES OF KREHALON FLO21 FILMS

Excellent sealability

KREHALON FLO21 films have a wide sealing range at low sealing temperatures and pressures ensuring high packing speeds and reduced leakers.

Good machinability

KREHALON FLO21 films run on most types of flow packing machines and tray lidding systems.

High strength

Gives good abuse resistance and handling possibilities ensuring customer appeal, less wastage and fewer returns.

Clarity and gloss

Brilliant clarity and gloss gives a glass-like, clear view of your product. For Modified Atmosphere Packaging (MAP) excellent anti-fog (AF) properties can be provided.

Excellent barrier

Ensures your product stays in the best condition from the point of packaging to the ultimate consumer as the film retains the defined vacuum or gas atmosphere and also prevents moisture loss.

Good shrinkability

Gives a tight wrinkle-free view of your products.

Environment friendly

The advanced technology and materials used in KREHALON FLO21 films allow the use of thinner films, so reducing packaging waste. FLO21 is made from chlorine-free material.

