



JR TECHNOLOGY
LIMITED

REINFORCED PLASTICS & COMPOSITES
PRODUCTION ENGINEERS

VACUUM BAG FILMS

JR TECHNOLOGY LIMITED offer these products to make up vacuum bags. Our most popular grades are polyamide films made either of nylon 6 or 6:6, all films having superior transparency & durability. Very low permeability to gases & aromas, combined with excellent chemical stability, make them outstanding vacuum bag materials. Their thermoformability is also remarkable, matching the requirements of modern vacuum packaging machines.

APPLICATIONS

Because of their superb abrasion & chemical resistance combined with other properties these films are widely used, either alone or in combination with other materials, for applications such as:

- Vacuum or Autoclave bonding components
- Sterilising packs for instruments & hospital operating theatre equipment
- Clean-room packaging of fine electronic & mechanical parts
- Cable insulation, binding/winding

Polyamide Vacuum Bag Films are available in 2 grades:-

(A). Type 6/50 - Polyamide 6, 50 μ thick, to 190°C (cast & blown/lay-flat tube)

(B). Type 66/50 (Heat Stabilised) - Polyamide 6:6, 50 μ thick, to 200°C+ (cast & blown/lay-flat tube)

nb.- This information is given in good faith based on customer trials under various conditions; however, these products cannot be guaranteed to fulfil all the demands & therefore are sold expressly as being considered suitable for the application by the purchaser.



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POLYESTER/POLYIMIDE FILMS

These are available in 36 or 50 μ thickness between 1 & 1.7 metres wide having operating temperatures in excess of 300°C. Please specify maximum operating temperature & type of film preferred.

PROPERTIES OF NYLON VAC FILM

DESCRIPTION	UNITS	NYLON 6	NYLON 6:6
Raw Density	g/cm^3	1.13-1.14	1.13-1.14
Tensile Strength	MPa	45-65	45-65
Elongation @ Break	%	250-350	250-350
Maximum Application	°C	160	170
Temperature Short Term	°C	200	240
O ₂ Permeability	$\text{cm}^3 \times 0.05 \text{ mm}$ $\text{m}^2 \times 24 \text{ hr} \times 1 \text{ atm}$	120-140	120-140
CO ₂ Permeability	$\text{cm}^3 \times 0.05 \text{ mm}$ $\text{m}^2 \times 24 \text{ hr} \times 1 \text{ atm}$	850-950	850-950
Moisture Permeability	$\text{g} \times 0.05 \text{ mm}$ $\text{m}^2 \times 24 \text{ hr} \times 85 \% \text{ RH}$	20-40	20-40
Water absorption:			
in +23°C water	%	~ 10.5	~ 9.5
in air 65% RH	%	~ 3.0	~ 2.0

nb.- This table is meant as a guide only. Film properties vary depending on processing conditions.

