PERFORMANCE FILMS







EXTRUDED AND SKIVED FILMS IN PTFE FEP - PFA MFA - ETFE THV - PVDF

TEKLEASE

RELEASE FILMS



ELECTRONICS

AUTOMOTIVE

TEKBOND
PREMIUM QUALITY PRESSURE

PREMIUM QUALITY PRESSURE SENSITIVE ADHESIVE TAPES



HIGH TEMPERATURE RELEASE FILMS | CLEAN RELEASE | SEALANT TAPES

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Guarniflon® S.p.A. HPF is the range of films and tapes produced from the main thermoplastic fluoropolymers available, such as ETFE, FEP, THV, PVDF and PFA, with remarkable quality thanks to new dedicated machinery able to produce 2000 mm wide films equipped with sophisticated thickness control in the range from 12 to 300 micron and more.

All the products of the range offer an outstanding chemical stability, a wide range of service temperature, resistance to uv radiation and more generally to any weather condition, flame retardancy and possibility of recycling.







FFP

Hi-tech films. The special fluoropolymer gives to the products outstanding resistance to chemical agents, a working temperature range which exceeds 200°C and excellent electrical properties, mechanical strength and durability.

Main advantages:

- Service temperatures over 200°C
- Excellent resistance to solvents and chemicals
- Outstanding electrical properties
- Flame resistance
- Extremely smooth surface

Main areas of application:

Telecommunications, wire & cable, semiconductors, paper industry, chemicals, textiles, food processing, packaging, composites, protective coating.

Supply forms:

Film Sheets, thin tapes Sheet width: up to 2000 mm Sheet thickness: from 0,013 to 0,250 mm Colors: transparent and red Available also micro perforated

THV

Provides a combination of performance advantages, such as low processing temperature, ability to bond to elastomers and hydrocarbon-based plastics, flexibility and optical clarity.

Main advantages:

- Excellent optical clarity and light transmission
- Bondability with many elastomers and plastics
- Outstanding flexibility in comparison with other fluoroplastics
- Excellent permeation resistance
- Good resistance to chemicals
- Low temperature processability

Main areas of application:

Automotive, chemical processing, multi-layer tubes and hoses, semiconductors, solar energy, optical fiber and architectural and protective coatings.

Supply forms:

Film Sheets, thin tapes
Sheet width: up to 2000 mm
Thickness: up to 0,200 mm
Colors: transparent
Available also food grade (white) and conductive (black)

ETFE

Together with an outstanding resistance to chemicals can be used continuously up to approximately 175°C service temperature.

Main advantages:

- Wide service temperature range
- Low flammability
- Excellent mechanical and electrical properties
- Very good resistance to chemicals and solvents
- Extremely high resistance to outdoor weathering
- . High light transmission in the visible and UV ranges
- Non-stick characteristics
- Excellent tearing resistance
- Very low permeability

Main areas of application:

Aerospace, automotive, chemical processing, composites, greenhouse coverings, architectural membranes.

Supply forms:

Film Sheets, thin tapes Sheet width: up to 2000 mm Sheet thickness: from 0,020 to 0,250 mm Colors: transparent and blue

Available also micro perforated

PVDF

Excellent characteristics of mechanical strength and abrasion resistance, durability and good chemical resistance allow a wide range of application, with continuous operating temperatures up to 150°C.

Main advantages:

- Excellent mechanical strength
- Good resistance to chemicals
- Continuous operating temperatures up to 150°C
- · Smooth and self cleaning surface
- Unrivalled lifespan without decay
- Resistance to UV and nuclear radiation
- Excellent flame retardancy
- Good impermeability

Main areas of application:

Chemical processing, tubes and hoses, semiconductors, wire and cable, automotive, nuclear, protective coatings, food and pharmaceutical processing.

Supply forms:

Film Sheets, thin tapes Sheet width: up to 450 mm Thickness: up to 0,100 mm Colors: transparent



PFA

Extruded films featuring exceptional heat resistance, excellent electrical properties and excellent chemical and weather resistance.

Main advantages:

- Service temperature up to 260°C
- Good low friction properties
- High degree of transparency
- Excellent weatherability
- Excellent electrical properties
- Excellent universal resistance to solvents and chemicals
- Does not support combustion

Main areas of application:

Chemical processing, wire & cable, coating applications, electronics, superior release in composites

Supply forms:

Sheets and tapes Sheet width: 1220mm

Sheet thickness: 0.050mm and 0.127mm

Color: natural transparent



Guarniflon® was established in 1982, enthusiasm, dedication and perseverance being the key factors which have allowed us to evolve to our present status of worldwide leader in our business field.

Guarniflon® has been evolving during recent years through local integration of its international Group of companies. Guarniflon® nowadays means:

- the Italian HQ's located in Northern Italy, one of the most industrialized area in Europe, focused on R&D, Quality and Customer Care, raw materials compounding and high tech product processing;
- European network with subsidiaries in Germany, France, UK, Spain and Romania. Each single company run by local managers, with their own warehouses, semifinished stock and sales network, responding to the needs of local customers;
- Overseas Companies in India and USA, both manufacturers;
- Technical and R&D support to Customers, coming from almost 35 years' experience in processing PTFE and others fluorobased products.



Each Company Division is equipped with a Quality laboratory with the most up-to-date equipment able to perform the necessary test to ensure a stable and high level quality standard. In other words being with Guarniflon® means nowadays to cooperate with a reliable technical partner in the fluorobased product field, taking advantage of strong experience, technical benefits and flexibility.













Via T. Tasso, 12 Tagliuno di Castelli Calepio (BG) IT Phone: + 39.035.4494311 | Fax: + 39.035.4494336 www.guarniflon.com - info@guarniflon.com

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Guarniflon reserves the right to modify the characteristics of its products without prior notice: the information herein reported are not binding and are subject to changes.