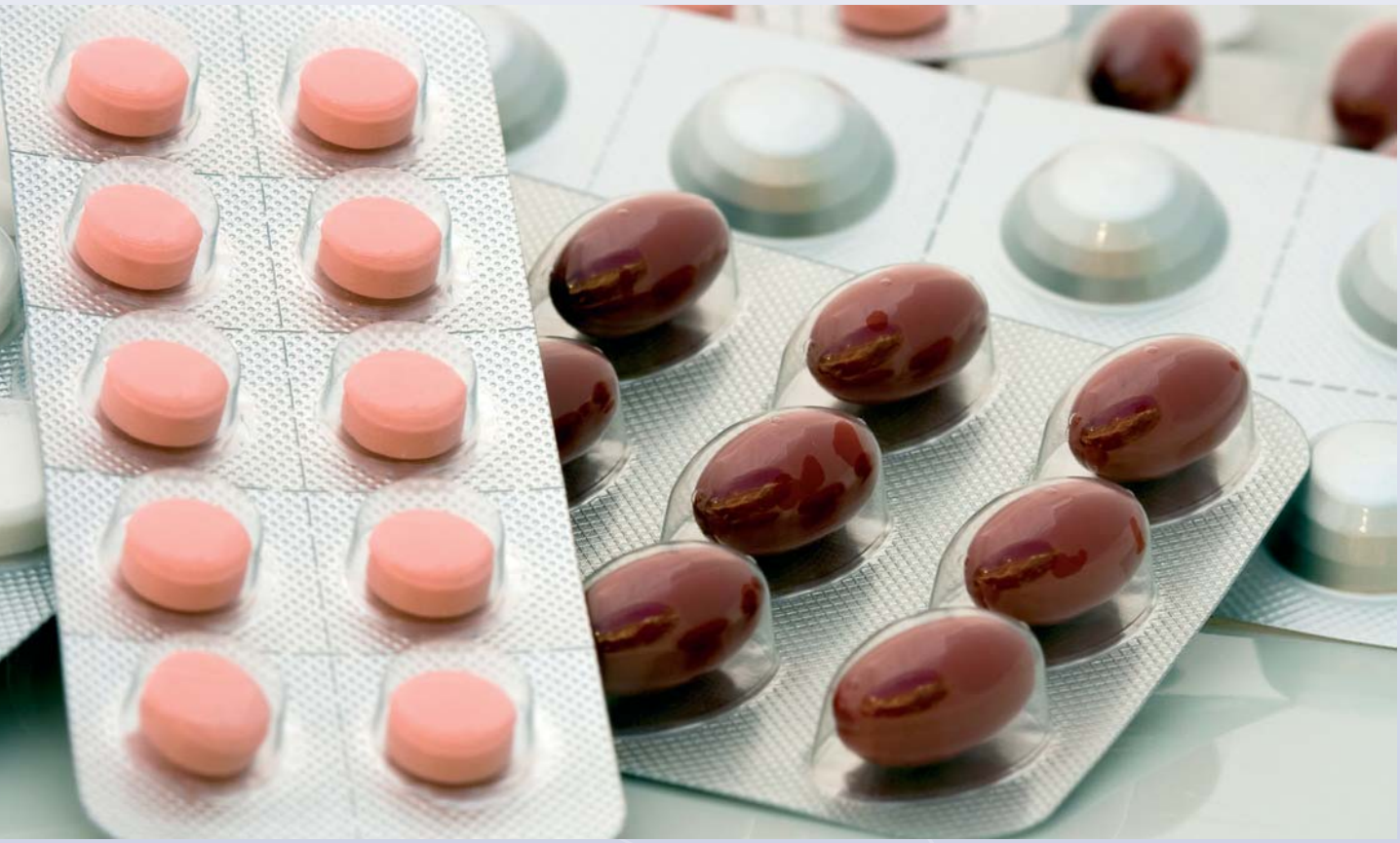
ONGROFOL®-P PHARMA



Pharmaceutical films manufactured by Ongropack Ltd. are in compliance with latest European Pharmacopeia directives and have FDA (Food and Drug Administration) registration. Phar type films fully comply with EU regulations related to plastic materials and articles intended to come into direct contact with food and drug.

Ongropack Ltd. is fully aware that the pharmaceutical industry demands safe, high quality packing materials, therefore we offer our ONGROFOL® PHARMA type film for the packaging of pharmaceutical products.

These films have excellent gas-tight property. Therefore they can be used in wide range as both primary and secondary packaging material. We can offer a wide range of products in clear, translucent and opaque colours for high demanding pharmaceutical applications.

Ongropack Ltd. considers the production, continuous development and sale of pharmaceutical films of strategic importance. Consequently, we have launched an investment programme aimed at the realisation of Clean Manufacturing System, further development of manufacturing conditions in compliance with the high demands of the pharmaceutical industry.

Advantages:

- **excellent transparency**
- **wide range of colours and sizes**
- **good thermoformability**
- **good resistance against different chemicals**

ONGROFOL®-P PHARMA

Technical data sheet P-type

Specifications	Unit	Value	Test method
Width	mm	54 – 1550	OPV-002/2004
Thickness	µm	150 – 800	
Max. roll diameter			
54 — 150 (width)	mm	max. 400	
151 — 300 (width)		max. 600	
301 — 1550 (width)		max. 800	
Core size (internal diameter)	mm	76 , *152	
Tensile strength	MPa	min. 46	MSZ EN ISO 527:1999
Transparency	%	min. 86	MFF-411/1993
Vicat B	°C	74-76	MSZ EN ISO 306:1999
Oxygen permeability OGTR 23 °C, RH0% 0.25mm	$cm^3/m^2 \times d \times bar$	17,6±0,9	ASTM D 3985-95
Carbon dioxide permeability CO_2GTR 23 °C , RH0% 0,25mm	$cm^3/m^2 \times d \times bar$	18,8±0,8	ASTM D 1434-82
Water vapour WVTR 38°C, RH 90%,0,25mm	$g/m^2 \times d \times bar$	3,3 ± 0,1	ASTM F 1249-90

* from 300 mm width

Advice: For ensuring more advantageous processing conditions, films stored at temperatures below 10 °C should be allowed to acclimatize for at least 48 hours at a min. temperature of 20 °C before processing.

Typical applications:

For use as primary and secondary packaging material for the **pharmaceutical industry**:

- For blistering tablets and ampoules
- For packaging of ampoules, syringes and injection fittings
- for formation of medical technical packages

Related registrations::

OETI 1232/2005, DMF 13864,
PH EUR directive
2002/72, 1935/2004, 78/142, 94/62
ISO 9001:2008, ISO14001:2004, HACCP

Ongropack

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