



**Thermal like you've
never seen before**

Xnyloflex®
press
Thermal Processing System

Focus on Innovation

**A smarter design for thermal processing of flexo plates,
and a system that is simple, clear and transparent**

FlintGroup

Focus on Technology



nyloflex[®] Xpress Thermal Processor

A smarter design for greater productivity with less maintenance, less downtime and lower operating costs

- Innovative system for thermal plate processing
- High quality and robust machine design (manufactured in the United States)
- **nyloflex[®] Xpress Thermal Processor FIV** with small footprint, yet massive scalability – easily process plates of any size from 254 mm x 254 mm to 1067 mm x 1650 mm (10.0" x 10.0" to 42.0" x 65.0")
- No chiller required – revolutionary short-wave IR pre-heating system allows for precise control of heating depth, resulting in excellent dimensional stability of plates
- Remote service and diagnostics with optional Wi-Fi connectivity
- Lightning-fast turnaround time with quick processing and no drying required
- Fully integrated colour touch screen control panel with wide viewing angles for ease of operation
- Visual and audible indicators allow operators to multitask
- Simple splicing and web-up procedure
- Developer roll usage is monitored and displayed

nyloflex[®] Exposure ECLF

Combined exposure and light finisher units with reduced footprint and efficient design

- **nyloflex[®] Exposure F III ECLF** for processing plates up to 920 mm x 1200 mm (36.2" x 47.2")
 - Cooling bed for consistent temperature
 - Fibre optic to detect defective lamps
 - Includes one-drawer light finishing section for UV-A and UV-C post exposure and light finishing
- Remote monitoring for easy diagnostic procedures optional
- **nyloflex[®] Exposure F IV ECLF** for processing plates up to 1200 mm x 1600 mm (47.2" x 63.0")
 - Integrated chiller for efficient temperature control
 - Fibre optic to detect defective lamps
 - Includes one-drawer light finishing section for UV-A and UV-C post exposure and light finishing
 - Stores up to 24 different process conditions
- Remote monitoring for easy diagnostic procedures optional

Focus on Detail



nyloflex® XPH & nyloflex® XPM

Thermal flexo plates for high-quality printing on paper substrates

- The perfect plates for thermal processing, with clean, open reverses and smooth, even surfaces
- Specially developed for printing high line screens on paper substrates
- Superior resistance to UV inks, also suitable for water based inks
- Incredible image quality, with wide tonal range for reproduction of fine image elements and smooth vignettes
- Robust and durable for longer press life and reusability
- Suitable for use with flat top exposure systems such as nyloflex® NExT
- **nyloflex® XPH Digital**
60 Shore A* plate for printing the finest highlight quality with minimal dot gain
- **nyloflex® XPM Digital**
50 Shore A* plate for use on the smallest plate cylinders, or when printing on rougher substrates

nyloflex® XVH & nyloflex® XFH

Thermal flat top flexo plates for use in multiple high-quality printing applications

- Inherently flat top – no additional equipment, processing steps or consumables required
- Unique plate formulation optimized specifically for thermal processing
- Stable flat top dot structure provides excellent impression and wear stability over long print runs at high press speeds
- Hard durometer (60 Shore A*) enables sharp printing of the smallest highlights, subtle vignette fades, and minimal dot gain
- Suitable for use with solvent and water based inks, as well as most UV-inks
- **nyloflex® XVH Digital**
 - Versatile smooth flat top plate for multiple applications
 - Perfectly suited for narrow web printing on all substrates
 - For wide web flexible packaging, when surface screening is used
 - Specially designed surface to hold fine micro cell patterns with normal UV tube exposure
- **nyloflex® XFH Digital**
 - Texturized flat top plate for high-quality film printing
 - Ideal for use with solvent based inks on non-absorbent substrates
 - Special plate texture provides smooth inks laydown and high ink densities without the need for extra surface screening

*According to DIN 53505

Focus on Environment



Thermal like you've never seen before...

nyloflex® Xpress Thermal Processing System for flexographic printing plates – incorporating the speed of thermal plate making with incredible plate and print quality.

There are **four components** of the system, each with unique and innovative features that combine to form an unparalleled, comprehensive solution for lightning-fast platemaking and high-end flexo printing.

At the heart of the processing system lies the **nyloflex® Thermal Printing Plates**. After the imaging the raw plates are first exposed in the **nyloflex® Exposure ECLF** before being processed. Flint Group's thermal plates are specifically formulated to perform exceptionally well in the **nyloflex® Xpress Thermal Processor**. Further benefits can be realized in the engineered fabric of the **nyloflex® Developer Rolls**, designed to be highly efficient and environmentally friendly.

nyloflex® Xpress Developer Rolls

Developer material with unique fiber structure ideal for thermal processing



- Specially developed nonwoven fabric provides optimum surface area to remove molten photopolymer for highly efficient plate development
- More efficiency allows for 30% less fabric density compared to standard commercial developer rolls, providing:
 - Lower impact on environment
 - Lighter rolls which are easier to handle, load and unload
- Available in 3 size options to maximize efficiency:
 - nyloflex® XP32 – 813 mm x 279 m (32.0" x 305 yd.)
 - nyloflex® XP37 – 940 mm x 279 m (37.0" x 305 yd.)
 - nyloflex® XP44 – 1105 mm x 279 m (43.5" x 305 yd.)

You want to give it a try?

Contact flexo.marketing@flintgrp.com and we will help you set up a demonstration at our technology center or provide you with material for a print trial with thermal produced plates on your printing press.



You are welcome to contact us for further information.

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