



SYNTRAN® 1693

For graphic arts

SYNTRAN® 1693 is based on our proprietary dual self-crosslinking technology. This technology creates a film with very high chemical resistance, excellent adhesion, high gloss, but is still printable by multiple ink types. This technology allows for high protection levels over multiple applications and substrates.

Performances

Applications	Label, board and packaging coatings (OPV)
Features and Benefits	<ul style="list-style-type: none"> Excellent alkali submersion resistance Excellent adhesion to multiple substrates Film has very high gloss, flexibility with good printability High compatibility with waxes and other additives Zero VOC requirements to formulate coating

Typical Chemical and Physical Properties (do not constitute specifications)

Physical form	White emulsion
Solids content	42.0%
pH value	7.5
Viscosity	50 cps
Density	1.050
MFFT	15°C
Freeze-thaw stability	Protect from freezing
Stability at 52°C	Unchanged after 30 days

Safety, Storage, Handling

Please refer to Safety Data Sheet.
 Shelf life: 12 months from shipping date in originally sealed containers.
 Storage: between 5°C and 35°C.

Formulating Guidelines



**Polyester Printable Primer,
F74-054-31**

Ingredient	% wt
SYNTRAN® 1693	95.0
Water	4.8
Leveler	0.2
<i>Total</i>	<i>100.0</i>



**Overprint Varnish Bright,
F74-054-13**

Ingredient	% wt
SYNTRAN® 1693	64.75
Water	29.00
Leveler	0.15
Defoamer	0.10
SYNTRAN® PA-1465	5.50
Thickener	0.50
<i>Total</i>	<i>100.0</i>

Applications

- Inks and Overprint varnishes for paper, packaging and paperboard
- For Flexographic & gravure printing processes
- Primers for metalized film, UV coatings and improved printability

Our company

ZS INTERPOLYMER has been producing waterbased specialty polymers since 1963. We manufacture at 4 facilities worldwide (2 in the United States, 1 each in France and China). ZS INTERPOLYMER is a market leader in several application fields:

- Surface care: Polymers for floor care, carpet cleaners and leather care.
- Consumer specialties: Polymers for mascara, household, hair- and skin- care products, etc.
- Industrial specialties: Functional binders for specialty paint and coating applications, polymers for overprint varnishes and inks, flocculants for ceramics, retanning agents.

With close working relationships with customers, our company produces tailor-made products in order to match specific needs. Our technical service and research and development centres will be your creative and innovative partners.