



lamberti
chemical specialties



// ROLFLEX® HGT //

Characteristics

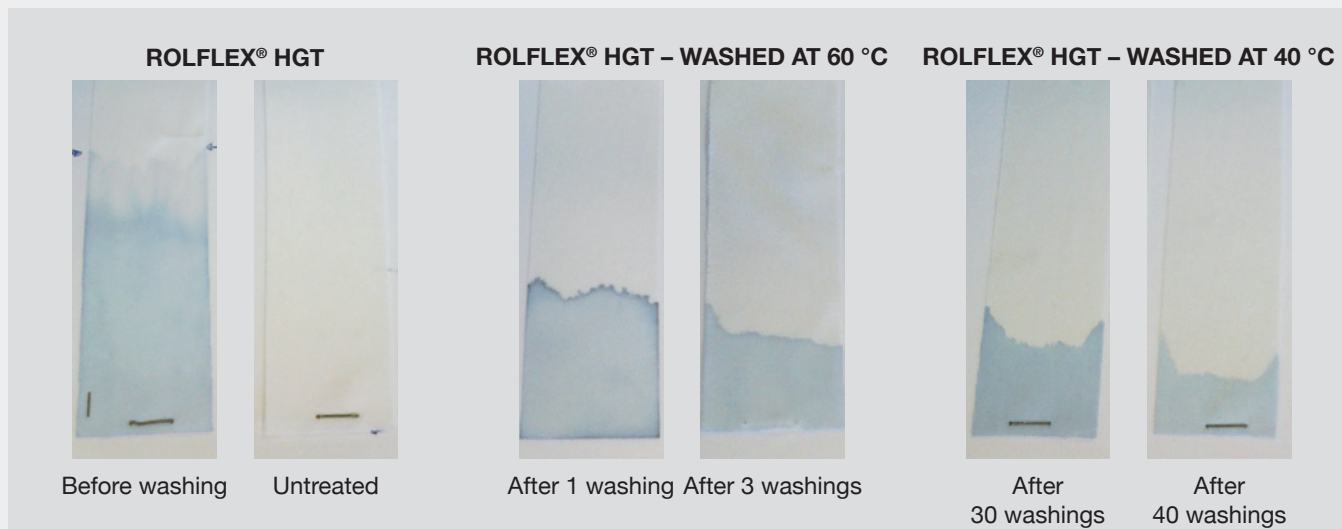
ROLFLEX® HGT is a reactive resin for formaldehyde free hydrophilic finishing.

Chemical composition	Waterborne modified polyurethane
Appearance at 20 °C	Colorless to light yellow liquid
Ionic charge	Non ionic
Dry matter	About 35%
pH (as it is)	5 - 6
Density at 25 °C	1.08
Viscosity at 20 °C	100 - 200 mPa sec.
Solubility	Dilution in all ratio with demineralized water

Advantages

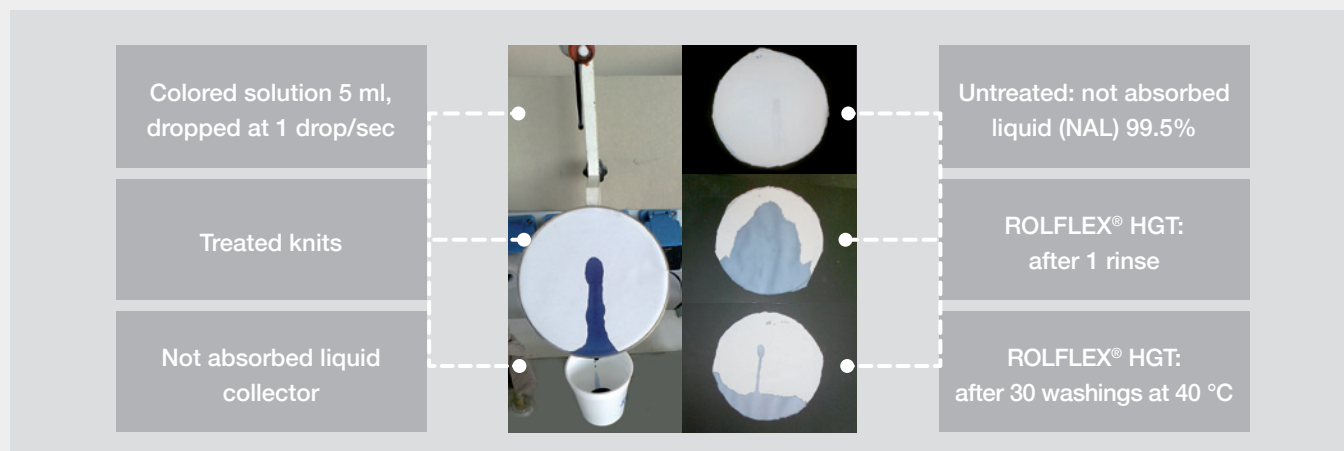
- It increases fibers hydrophilicity (especially PES and other synthetics), promoting sweat absorption and evaporation
- The hydrophilic effect resists for more than 30 machine washes at 40 °C
- It gives voluminous and draping touch
- It improves elasticity and fastness of wash and wear finishing
- It reduces pilling formation without the touch changing
- It improves abrasion resistance
- It gives anti-static properties
- The finishing is formaldehyde free, has very good washing fastness and does not become yellow by thermal treatment or UV exposure
- It is self-cross-linking, so it does not need any catalyst

Capillarity (100 g/l on hydrophobic PES knitwear)





Internal test – Similar to WSP 80-9-90

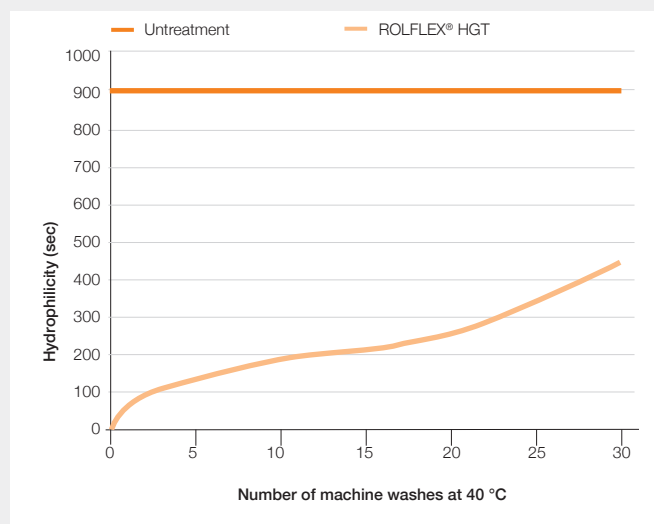


Drop test

This simple test measures the absorption time required to absorb 7 drops of 10 laid on the fabric surface (stop timing when the 7th drop is completely adsorbed). Shorter the time better the hydrophilicity.

The following graph shows the comparison between a fabric surface treated with ROLFLEX® HGT and an untreated one.

Drop test ROLFLEX® HGT (untreated knits take more than 900 seconds)



Water evaporation

A drop of 0.05 g was laid on the fabric, then after 30 minutes the residual water is weighed.

Untreated fabric: residual water 85%

Treated fabric: residual water 3%

The lower the residual water, the higher is the comfort.

Wicking test AATCC 197-2011 (capillarity absorption)

Time after 1 cycle 5A	Untreated (cm)		Treated (cm)	
	warp	weft	warp	weft
1 minute	0	0	5	6
5 minutes	0	0	10	8
30 minutes	1	0.5	15	13

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