

Interpolymer offers
a suggested formulation for
Syntran[®] 5190.

- Long-Lash Mascara

F-18-77

LONG-LASH MASCARA WITH SYNTRAN® 5190

Formulation F-18-77-01.190

<u>Phase</u>	<u>INCI Designation</u>	<u>Weight %</u>
A Water (+3% of evaporation)	Aqua	52.65
A Disodium EDTA	Disodium EDTA	0.15
A Propylene Glycol	Propylene Glycol	1.50
A TEA (99%)	Triethanolamine	1.70
A Natrosol 250 HHR (Hercules/Aqualon)	Hydroxyethylcellulose	0.15
A1 Polyox WSR 205 (Amerchol)	PEG-14M	0.30
A2 Veegum K (Vanderbilt)	Magnesium Aluminum Silicate	2.00
B Isostearic Acid (Fanning)	Isostearic Acid	1.50
B Ultracas G 20 (Noveon)	Octyldodecyl Ricinoleate	2.00
B Stearic Acid (Cognis)	Stearic Acid	3.00
B Tegin (Degussa Care Specialties)	Gyceryl Stearate SE	1.20
B Beeswax white (Kahl)	Cera Alba	4.00
B Carnauba wax (Strahl & Pitsch)	Carnauba	4.00
B Candelilla Wax (Caldic)	Candelilla Cera	2.00
B Witcotak 145 (Witco)	Microcrystalline Wax	2.00
B Span 60 (Uniqema)	Sorbitan Stearate	1.30
B Igrasan DP 300 (Ciba)	Triclosan	0.10
B Propylparaben	Propylparaben	0.20
B Tinogard TT (Ciba Specialty Chemicals)	Tetradibutyl pentaerithrityl Hydroxyhydrocinnamate	0.05
C Water	Aqua	2.00
C Ammonium Hydroxide 28° Be'	Ammonium Hydroxide	0.80
D Syntran® 5190 (Interpolymer)	Acrylates Copolymer	7.00
E Black Iron Oxide AS R 0423 (LCW)	C1 77499 Triethoxycaprylylsilane	10.00
F Phenoxyethanol	Phenoxyethanol	0.90
G Crodasone W (Croda Inc.)	Hydrolysed Wheat Protein PG-propyl silanetriol	2.00
G Germal II (Sutton)	Diazolidinyl urea	0.25
G Dowicil 200 (Dow Chemical)	Quaternium-15	0.15
G TEA (99%)	Triethanolamine	0.10
	YIELD:	103.00%

Procedure

- Heat Phase A at 70°C while mixing. When Natrosol is added, start homogenizing. Add A1 and A2 in sequence, while homogenizing after each addition until each thickener is completely dispersed. Then heat at 80°C. Put under vacuum.
- Melt Phase B at 80-85°C while stirring. Add slowly Phase B to Phase (A+A1+A2) while homogenizing and continue for 10 minutes.
- Then, add solution C while homogenizing for 10 minutes, always under vacuum. Cool slowly to 70°C, then add in sequence D, E and F while homogenizing after each addition. Then deaerate carefully.
- Cool slowly to 40°C and add slowly solution G while homogenizing.
- Cool to 25°C while alternating stirring and homogenizing. Control parameters and discharge.

Viscosity RVT Brookfield (25°C) – Sample 500 g

Helipath T-E 2.5 rpm: 700 000 mPa.s
 5 rpm: 380 000 mPa.s

pH 8-8.5

2005