



Technical Data Sheet

HydroPol™ 30124

1. Description

HydroPol™ 30124 is a modified co-polymer based on vinyl acetate hydrolysed monomers.

HydroPol 30124 has been specifically formulated for blown film

2. Properties

Particle Size	4-5 mm
Density	1.12 g/cm ³
Peak Melting Temperature	225°C

3. Typical Film Properties

Tear Strength (Elmendorf) g	680 g (TD)	ISO 1974
Tensile Strength MPa	20μ 58 (MD) 36 (TD)	ISO 527-3
Elongation at break %	220 (TD)	ISO 527-1
DART penetration kg	20μ 0.084	ISO 7765-1

Oxygen Permeability (ml/m²/day)*

0.09

(* 20μ 50% RH & 23°C)



Water Vapour Permeability (g/m²)

30% RH 788

90% RH 1500 – 2000

(24 hours 30u film @40C)

Other Barrier

High resistance to animal, mineral and vegetable oils, aliphatic and aromatic hydrocarbons, ethers, esters and ketones.

Static Dissipation Properties

Because of their high hydroxyl group content and hygroscopicity, HydroPol™ compounds are inherently static dissipative, similar to cellophane, and cause little frictional static charging. Surface resistivities are in the range of 10⁵–10⁶ ohms/square

Toxicity.

HydroPol™ 30124 is non-toxic and all raw materials are listed as approved as direct food additives and food contact by EU and US regulatory listings.

Biodegradability.

HydroPol™ compounds are inherently biodegradable. Biodegradation has been observed by at least 20 different genera of bacteria and several yeasts and molds which occur in activated sludge, compost, facultative ponds, landfills, anaerobic digesters and septic systems and in natural soil and aquatic environments.

Sturm (aquatic) biodegradation tests show that the formulations degrade in the presence of activated sewage sludge at a similar rate to cellulose and cause little frictional static charging. Surface resistivities are in the range of 10⁵–10⁶ ohms/m².