

ECOPROL® H1000

SK Chemicals - Polyvinyl Alcohol

General Information

Product Description

ECOPROL H1000 is sustainable, 100% bio-based specialty polyether polyol produced using the 1,3-propanediol. ECOPROL delivers various unique properties such as elasticity, flexibility, soft touch and processability comparing with PTMEG in various PU applications due to its unique helical molecular structure. ECOPROL has a lower carbon footprint than other petro-based polyol, it has a 40% saving in non-renewable energy and 42% reduction in greenhouse gas emissions.

Key Attributes

- Increase Bio-content (100% sustainable content)
- Increase flexibility, durability (Elastic recovery, abrasion resistance)
- More efficiency process ability (Low melting temperature, viscosity)
- Excellent Low temperature performance
- Bio-degradable

Applications / Uses

- Elastomer
- Textile (Fibers, coatings)
- Synthetic leather
- Performance coating (Additives for coating, water soluble PU)
- Inkjet inks (Water soluble PU)

General

Features	<ul style="list-style-type: none"> • Abrasion Resistant • Biodegradable • Durable 	<ul style="list-style-type: none"> • Good Flexibility • Good Printability • High Elasticity 	<ul style="list-style-type: none"> • Reduced Carbon Footprint • Renewable Resource Content • Soft
Uses	<ul style="list-style-type: none"> • Additive • Coating Applications 	<ul style="list-style-type: none"> • Fibers • Printing Ink 	<ul style="list-style-type: none"> • Synthetic Leather
Processing Method	<ul style="list-style-type: none"> • Coating 		

Properties ¹

Physical	Nominal Value	Unit
Density (104°F)	1.02	g/cm ³
Moisture	< 200	ppm
Molecular Weight	900 to 1100	g/mol
Viscosity (77°F)	400 to 600	mPa·s
Thermal	Nominal Value	Unit
Melting Temperature	53.6 to 57.2	°F
Optical	Nominal Value	Unit
Color - APHA	< 50	
Additional Information	Nominal Value	Unit
Hydroxyl Value	102 to 125	mg KOH/g