

ECOPROL 1000 Technical Data Sheet

Product Description

ECOPROL 1000 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 coatings
- ✓ Synthetic leather
- ✓ Performance coating
(Additives for coating, water soluble PU)
- ✓ Inkjet inks
(Water soluble PU)

Physical and Chemical Properties

Properties	UNIT	Typical Values
Molecular Weight	g/mol	900 – 1100
Hydroxyl Number	mg KOH/g	102.0 – 124.6
Colour	APHA	max. 50
Moisture	ppm	max. 200
Viscosity, 25°C	cps	400-600
Density, 40°C	g/ml	1.018
Melting Point	°C	12 – 14

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