

VESTOLIT G 171 (170 Series)

Polyvinyl Chloride Homopolymer

General Information

Product Description

VESTOLIT G 171 is an ultra-high molecular weight, fine particle size homopolymer dispersion resin intended for use in thin, organosol cast coatings and films. This resin provides excellent fused film and chemical resistance properties. The low residual emulsifier level provides good end product performance in the areas of clarity, moisture blush resistance and low taste and odor. VESTOLIT G 171 is accepted by FDA for use under 21CFR175.300, food contact application.

General

Generic Name	• Polyvinyl Chloride Homopolymer (PVC Homopolymer)		
Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• South America
	• Asia Pacific	• North America	
Features	• Low to No Odor	• Low to No Taste	• Ultra High Molecular Weight
Uses	• Coating Applications	• Film	
Forms	• Powder ¹		
Processing Method	• Casting	• Coating	

ASTM & ISO Properties²

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40		ASTM D792
K-Value ³	82.0		No Standard
Bulk Density	272 g/l		
Inherent Viscosity	1.4		ASTM D1243-60-A
Moisture - Karl Fisher ⁴	0.090 %		Internal Method
Relative Viscosity ⁵	3.04		Internal Method

Fill Analysis	Nominal Value	Unit	Test Method
Brookfield Viscosity ⁶			Internal Method
One Day Viscosity @ 30rpm	200	mPa·s	
One Day Viscosity @ 6rpm	375	mPa·s	
One Hour Viscosity @ 30rpm	175	mPa·s	
One Hour Viscosity @ 6rpm	300	mPa·s	

Additional Information	Nominal Value	Unit	Test Method
Clean Point - Grind ⁶	5.25	Hegman	Internal Method
Methanol Extractables ⁷	1.3 %		Internal Method
North Fineness - Grind ⁶	5.50	Hegman	Internal Method
Polymerization Process		Emulsion	
Residual Vinyl Chloride Monomer ⁸	< 1	ppm	Internal Method

Note:

The value set forth represent "typical" values and Mexichem, therefore, makes no representation that the material in any particular shipment will conform to the listed properties.

Packaging: This resin is shipped in multi-wall paper bags, net weight 50 lbs, 2500 lbs per pallet. Information shown on the package includes commercial identification number, lot and weight.

VESTOLIT STP 1434 (formulation): 100phr VESTOLIT G 171, 55phr Aromatic100, 20phr Drapex 334-F, 5phr ESO, and 3phr Therm-Chek SP 120 LOHF

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Notes

¹ Fine, white powder

² Typical properties: these are not to be construed as specifications.

³ Correlation, 0.5g/100ml

⁴ VESTOLIT STP 683

⁵ Correlation, Cyclohexanone 1%

⁶ VESTOLIT STP 1434 (with provided formulation)

⁷ VESTOLIT STP 894

⁸ VESTOLIT STP 1005

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