

# Geon™ 170 Series 171

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

## Message:

Geon® 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.

Geon® 171 is accepted by FDA for use under 21CFR175.300, food contact application.

General Information			
Features	Ultra high molecular weight		
	The smell is low to none		
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Uses	Films		
	Coating application		
Forms	Powder 1		
Processing Method	Casting		
	Coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
K-Value <sup>1</sup>	82.0		
Intrinsic Viscosity	1.4		ASTM D1243-60-A
Humidity-Karl Fisher <sup>2</sup>	0.090	%	Internal method
Volume density <sup>3</sup>	272	g/l	
Relative Viscosity <sup>4</sup>	3.04		Internal method
Brokfield Viscosity			Internal method
One Day Viscosity @ 30rpm <sup>5</sup>	200	mPa·s	Internal method
One Day Viscosity @ 6rpm <sup>6</sup>	375	mPa·s	Internal method
One Hour Viscosity @ 30rpm <sup>7</sup>	175	mPa·s	Internal method
One Hour Viscosity @ 6rpm <sup>8</sup>	300	mPa·s	Internal method
Clean Point - Grind <sup>9</sup>	5.25	Hegman	Internal method
North fineness-Grind <sup>10</sup>	5.50	Hegman	Internal method
Residual Vinyl Chloride Monomer - FF <sup>11</sup>		ppm	Internal method
Methanol extractable <sup>12</sup>	1.3	%	Internal method
polymerization process	Dispersion		
Additional Information	Nominal Value	Unit	Test Method

Note: The value set forth represents "typical" values and Mexichem Specialty Resins, 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. Geon® STP 1434 (formulation): 100phr Geon® 171, 55phr Aromatic 100, 20phr Drapex 334-F, 5phr ESO, and 3phr Therm-Chek SP 120 LOHF

NOTE	
1.	Interrelationship
2.	Karl Fisher-Geon® 683c
3.	60°, FF, ALTC-65
4.	1% Cyclohexanone
5.	FF, ALTC-29
6.	95 psi, Geon® 1010
7.	One day, V12, Geon® 1010
8.	Initial, V12, Geon® 1010
9.	FF, ATLC-66
10.	Geon® 390
11.	Geon® STP 1005
12.	Geon® 894

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