

# Geon™ 170 Series 174

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

## Message:

Geon® 174 is a medium molecular weight, fine particle size homopolymer dispersion resin. It provides a good balance of fused film properties and processing temperatures. It is recommended for applications such as food and beverage can and can end coatings, or cast commercial graphic and fleet signage films. This resin contains low residual emulsifier level which provides good end product performance in an area of clarity, moisture blush resistance, and low taste and odor.

Geon® 174 is accepted by FDA for use under 21CFR175.300, food contact application.

General Information			
Features	The smell is low to none		
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Uses	Films		
	Protective coating		
	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>	70.0		Internal method
Intrinsic Viscosity	1.0		ASTM D1243-60-A
Humidity-Karl Fisher <sup>2</sup>	0.090	%	Karl Fisher
Volume density <sup>3</sup>	272	g/l	
Relative Viscosity <sup>4</sup>	2.37		
Brokfield Viscosity			Internal method
One Day Viscosity @ 30rpm <sup>5</sup>	300	mPa · s	Internal method
One Day Viscosity @ 6rpm <sup>6</sup>	500	mPa · s	Internal method
One Hour Viscosity @ 30rpm <sup>7</sup>	225	mPa · s	Internal method
One Hour Viscosity @ 6rpm <sup>8</sup>	325	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	%	
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® 174, 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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#### Recommended distributors for this material

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