

# Geon™ 170 Series Adept E 49

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

## Message:

Geon® Adept E49 is a low molecular weight homopolymer dispersion resins intended for use in variety of plastisol applications and processes. It reduces scrap rates and manufacturing costs by extending plastisol shelf life with reduced viscosity aging performance. It improves non settling characteristic in hot melt system.

Geon® Adept E49 is recommended for solid plastisol applications for instance the hard and soft products produced from hot melt plastisols, high clarity and gloss textile screen (printing) inks.

General Information	
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Features	Highlight Definition, high
Forms	Powder 1
Processing Method	Hot Melt Ink Jet Digital Printing Slush Molding rotomolding Impregnation coating method

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
K-Value <sup>1</sup>	64.0		Internal method
Intrinsic Viscosity <sup>2</sup>	0.85		ASTM D1243-60-A
Humidity-Karl Fisher <sup>3</sup>	0.090	%	Internal method
Volume density	272	g/l	
Relative Viscosity <sup>4</sup>	2.12		Internal method
Optimal stretching <sup>5</sup>	10.7	MPa	ASTM D638
Gloss-60 degree fused 5 mins @ 350F <sup>6</sup>	90	%	Internal method
Transparency-light transmittance <sup>7</sup>	97	%	Internal method
Brokfield Viscosity			Internal method
Initial Viscosity @ 2 rpm <sup>8</sup>	3.85	Pa · s	Internal method
Initial Viscosity @ 20 rpm <sup>9</sup>	2.65	Pa · s	Internal method
One Day Viscosity @ 2 rpm <sup>10</sup>	4.95	Pa · s	Internal method
One Day Viscosity @ 20 rpm <sup>11</sup>	3.35	Pa · s	Internal method
Cut off the outflow-95 psi <sup>12</sup>	120.00	g/10 min	Internal method
North fineness <sup>13</sup>	5.00	Hegman	Internal method
Residual Vinyl Chloride Monomer <sup>14</sup>		ppm	Internal method
Methanol extractable <sup>15</sup>	1.3	%	Internal method
polymerization process	Suspension		

Gel temperature <sup>16</sup>	71	°C	Internal method
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Additional Information	Nominal Value	Unit	Test Method
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Note: The value set forth represent "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® ALTC and ASTM D638 (formulation): 100phr Geon® Adept E 49, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® Adept E 49, and 60phr DOP

NOTE			
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1.	Interrelationship		
2.	Puli 1386		
3.	Geon® STP 683		
4.	Interrelationship		
5.	With provided formulation		
6.	Geon® ALTC 65 (with provided formulation)		
7.	Geon® ALTC 66 (with provided formulation)		
8.	Geon® 1169		
9.	Geon® ALTC 22 (with provided formulation)		
10.	Geon® ALTC 22 (with provided formulation)		
11.	Geon® ALTC 22 (with provided formulation)		
12.	Geon® ALTC 23 (with provided formulation)		
13.	Geon® STP 390 (with provided formulation)		
14.	Geon® STP 1005		
15.	Geon® STP 894		
16.	Geon® 1458		

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#### Recommended distributors for this material

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