

# Geon™ 180 Series 186A

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

## Message:

Geon® 186A is low molecular weight homopolymer resin, providing a good balance of fused film physical properties and fusion characteristics. It provides excellent chemical foam characteristics with good overblow resistance. It gives good dispersability for plastisol preparation.

Geon® 186A is recommended for applications where an overall balance of good rheological and fused film physical properties are required such as low density chemically blown foams, fabric coating applications, and plastisol screen printing inks.

General Information			
Features	Foamable property Medium molecular weight		
Uses	Foam Fabric coating		
Forms	Powder 1		
Processing Method	Plastisol		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
K-Value <sup>1</sup>	65.0		Internal method
Intrinsic Viscosity	1.0		ASTM D1243-60-A
Humidity-Karl Fisher <sup>2</sup>	0.060	%	Internal method
Volume density	400	g/l	
Relative Viscosity <sup>3</sup>	2.20		Internal method
Optimal stretch-PP <sup>4</sup>	20.7	MPa	ASTM D638
Gloss-60 degree fused 5 mins @ 350F <sup>5</sup>	87	%	Internal method
Transparency-Transmittance-PP <sup>6</sup>	78	%	Internal method
Brokfield Viscosity			Internal method
Initial Viscosity @ 2 rpm <sup>7</sup>	9.00	Pa · s	Internal method
Initial Viscosity @ 20 rpm <sup>8</sup>	6.95	Pa · s	Internal method
One Day Viscosity @ 2 rpm <sup>9</sup>	12.6	Pa · s	Internal method
One Day Viscosity @ 20 rpm <sup>10</sup>	9.28	Pa · s	Internal method
Cut off the outflow-95 psi <sup>11</sup>	90.00	g/10 min	Internal method
North fineness <sup>12</sup>	4.75	Hegman	Internal method
Residual Vinyl Chloride Monomer <sup>13</sup>		ppm	Internal method
Methanol extractable <sup>14</sup>	3.5	%	Internal method
polymerization process	Dispersion		
Gel temperature-PP <sup>15</sup>	72	°C	Internal method
Additional Information	Nominal Value	Unit	Test Method

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® 186A, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 186A, and 60phr DOP

NOTE	
1.	Interrelationship
2.	Karl Fisher-Geon® 683c
3.	Interrelationship
4.	With provided formulation
5.	60°,FF,ALTC-65
6.	Geon® ALTC 66 (with provided formulation)
7.	Initial, V12, Geon® 1010
8.	One day, V12, Geon® 1010
9.	Geon® ALTC 22 (with provided formulation)
10.	Geon® ALTC 22 (with provided formulation)
11.	95 psi, Geon® 1010
12.	Geon® 390
13.	Geon® STP 1005
14.	Geon® 894
15.	Geon® ALTC 29 (with provided formulation)

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### Recommended distributors for this material

## Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

