

Geon™ 170 Series 179

Polyvinyl Chloride Homopolymer
Mexichem Specialty Resins, Inc.

Message:

Geon™170 Series 179 is a polyvinyl chloride homopolymer (PVC homopolymer) material. The product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing methods are: hot melt, dip coating or coating.

Geon™The main features of 170 Series 179 are:

high gloss
high strength
Transparency

General Information	
Features	Highlight
	High strength
	Definition, high
Forms	Powder 1
Processing Method	Hot Melt
	Impregnation coating method
	Coating

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Apparent Density	0.27	g/cm ³	
K-Value ¹	75.0		Internal method
Intrinsic Viscosity ²	1.2		Internal method
Water content-Karl Fisher ³	0.090	%	Internal method
Relative viscosity-Cyclohexanone 1%	2.71		
Optimal stretching	17.4	MPa	ASTM D638
Gloss-60 degree fused 5 mins @ 350F ⁴	90	%	Internal method
Transparency-light transmittance ⁵	96	%	Internal method
Brokfield Viscosity ⁶			Internal method
Initial @ 2 rpm	5.50	Pa · s	Internal method
Initial @ 20 rpm	3.08	Pa · s	Internal method
One Day @ 2 rpm	7.20	Pa · s	Internal method
One Day @ 20 rpm	4.08	Pa · s	Internal method
Cut off outflow ⁷	252.00	g/10 min	Internal method
North fineness ⁸	5030	Hegman	Internal method
Residual Vinyl Chloride Monomer ⁹		ppm	Internal method
Methanol extractable ¹⁰	1.3	%	Internal method
polymerization process	Emulsion		
Gel temperature ¹¹	89	°C	Internal method

Additional Information	Nominal Value	Unit	Test Method
Test Method Formulas"ALTC" and "ASTM" Ingredients and Level			
Resin: 100 phr			
DINP: 57 phr			
ESO: 3 phr			
Therm-Chek SP 120 LOHF: 2 phr			
"STP" (all except Fog) Ingredients and Level			
Resin: 100 phr			
DOP: 60 phr			
"STP" (Fog only) Ingredients and Level			
Resin: 100 phr			
DUP: 80 phr			

NOTE			
1.	0.5g/100ml		
2.	ASTM D 1243 60 A		
3.	STP 683		
4.	ALTC 65		
5.	ATLC 66		
6.	ALTC 22		
7.	STP 1010		
8.	STP 390		
9.	STP 1005		
10.	STP 894		
11.	ATLC 29		

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