

Geon™ 120 Series 121AR

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon™ 120 Series 121AR 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: slush molding, rotational molding or dip coating. Geon™ The main characteristics of 120 Series 121AR are: high strength.

General Information			
Features	High strength		
Forms	Powder 1		
Processing Method	Slush Molding		
	rotomolding		
	Impregnation coating method		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Apparent Density	0.46	g/cm ³	
K-Value ¹	74.0		Internal method
Intrinsic Viscosity ²	1.2		Internal method
Water content-Karl Fisher ³	0.050	%	Internal method
Relative viscosity-Cyclohexanone 1%	2.65		
Optimal stretching	22.8	MPa	ASTM D638
Gloss ⁴			Internal method
60 degree fused 3 mins @ 390F	94	%	Internal method
60 degree fused 5 mins @ 350F	61	%	Internal method
Transparency-light transmittance ⁵	71	%	Internal method
Brokfield Viscosity ⁶			Internal method
Initial @ 2 rpm	4.15	Pa · s	Internal method
Initial @ 20 rpm	4.35	Pa · s	Internal method
One Day @ 2 rpm	4.80	Pa · s	Internal method
One Day @ 20 rpm	5.53	Pa · s	Internal method
Cut off the outflow-95 psi ⁷	36.00	g/10 min	Internal method
North fineness ⁸	2.00	Hegman	Internal method
Residual Vinyl Chloride Monomer ⁹		ppm	Internal method
Methanol extractable ¹⁰	2.1	%	Internal method
polymerization process	Microsuspension		
Gel temperature ¹¹	64	°C	Internal method
degassing property ¹²	1.6	min	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.	ALTC 23
8.	STP 390
9.	STP 1005
10.	STP 894
11.	ATLC 29
12.	STP 850

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