

Geon™ 120 Series 129

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon™ 120 Series 129 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, dip coating or coating. Geon™ The main characteristics of 120 Series 129 are: high strength.

General Information			
Features	Low to No Fogging		
	High strength		
Forms	Powder 1		
Processing Method	Slush Molding		
	rotomolding		
	Impregnation coating method		
	Coating		
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	77.0		Internal method
Intrinsic Viscosity ²	1.2		Internal method
Water content-Karl Fisher ³	0.050	%	Internal method
Relative viscosity-Cyclohexanone 1%	2.75		
Optimal stretching	20.6	MPa	ASTM D638
Gloss ⁴			Internal method
60 degree fused 3 mins @ 390F	89	%	Internal method
60 degree fused 5 mins @ 350F	56	%	Internal method
Transparency-light transmittance ⁵	94	%	Internal method
Brokfield Viscosity ⁶			Internal method
Initial @ 2 rpm	8.78	Pa · s	Internal method
Initial @ 20 rpm	6.50	Pa · s	Internal method
One Day @ 2 rpm	1.00	Pa · s	Internal method
One Day @ 20 rpm	8.88	Pa · s	Internal method
Cut off outflow ⁷	108.00	g/10 min	Internal method
Fog Test - Transmittance ⁸	98	%	Internal method
North fineness ⁹	4.75	Hegman	Internal method
Residual Vinyl Chloride Monomer ¹⁰		ppm	Internal method
Methanol extractable ¹¹	3.2	%	Internal method
polymerization process	Microsuspension		

Gel temperature ¹²	63	°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 1418		
9.	STP 390		
10.	STP 1005		
11.	STP 894		
12.	ATLC 29		

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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

