Geon™ 120 Series 120X400

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® 120X400 is medium molecular weight resin providing a good balance of fusion temperatures and film physical properties. It gives good chemical foamability for producing medium to high density foams. It contains lower emulsifier level results in lower plate-out without the loss of foamability as compared to standard Geon® 120A resin.
Geon® 120X400 is recommended for medium to high density foam or solid applications where good fused film physical properties are required such as stand coating, resilient flooring foam layer, artificial leather and suede type fabrics.

General Information	
Features	Foamable property Medium molecular weight
Uses	Films Textile applications Foam Coating application
Forms	Powder 1
Processing Method	Slush Molding rotomolding Impregnation coating method Coating

Physical	Nominal Value	Unit	Test Method
Specific gravity-Calculated value	1.40		ASTM D792
Intrinsic Viscosity	1.0		ASTM D1243-60-A
Humidity-Karl Fisher [1]	0.050	%	Internal method
Volume density	465	g/l	
Relative Viscosity [2]	2.37		Internal method
Optimal stretch-FF [3]	21.0	MPa	ASTM D638
Gloss-60 Degree Fused 5 mins @ 350 F [4]	82	%	Internal method
Transparency-light transmittance [5]	81	%	Internal method
Brokfield Viscosity			Internal method
Initial Viscosity @ 2 rpm [6]	5.50	Pa·s	Internal method
Initial Viscosity @ 20 rpm [7]	4.88	Pa·s	Internal method
One Day Viscosity @ 2 rpm [8]	6.98	Pa·s	Internal method
One Day Viscosity @ 20 rpm [9]	6.10	Pa·s	Internal method
Cut off the outflow-95 psi [10]	102.00	g/10 min	Internal method
North fineness [11]	4.75	Hegman	Internal method

Residual Vinyl Chloride Monomer [12]		ppm	Internal method
Methanol extractable [13]	2.9	%	Internal method
polymerization process	Dispersion		
Gel temperature [14]	71	°C	Internal method
K-Value [15]	70.0		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® 120X400, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHFGeon® STP 390(formulation): 100phr Geon® 120X400, and 60phr DOP

NOTE	
1.	Karl Fisher-Geon® 683c
2.	1% Cyclohexanone
3.	With provided formulation
4.	60°,FF,ALTC-65
5.	FF,ATLC-66
6.	Initial, V12,Geon®1010
7.	One day, V12,Geon®1010
8.	Geon® ALTC 22 (with provided formulation)
9.	Geon® ALTC 22 (with provided formulation)
10.	95 psi,Geon® 1010
11.	Geon® 390
12.	Geon® STP 1005
13.	Geon® 894
14.	FF,ALTC-29
15.	Melt flow equivalent, DIN 53426

Recommended distributors for this material

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