

PolyOne Geon™ 120 Series 120X400 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

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. Note: The value set forth represent typical values and PolyOne Corporation, 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 LOHF Geon® STP 390(formulation): 100phr Geon® 120X400, and 60phr DOP Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-120-Series-120X400-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Bulk Density	0.465 g/cc	0.0168 lb/in ³	
Fineness	4.75	4.75	Hegman, North Fineness; Geon® 390
Relative Viscosity	2.37 cP	2.37 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	4.88 cP	4.88 cP	Initial Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	5.5 cP	5.5 cP	Initial Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	6.1 cP	6.1 cP	One Day Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	6.98 cP	6.98 cP	One Day Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
Viscosity Measurement	1.0	1.0	Inherent; ASTM D1243-60-A
Melt Flow	102 g/10 min	102 g/10 min	Severs Efflux; Geon® ALTC 23 (with provided formulation); Internal Method
	@Pressure 0.655 MPa	@Pressure 95.0 psi	

Mechanical Properties	Metric	English	Comments
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Mechanical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Gloss	82 %	82 %	60 Degree Fused 5 mins @ 350 FGeon® ALTC 65 (with provided formulation); Internal Method
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Transmission, Visible	81 %	81 %	Geon® ALTC 66 (with provided formulation); Internal Method
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Processing Properties	Metric	English	Comments
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Moisture Content	0.050 %	0.050 %	Karl FisherGeon® STP 683; Internal Method
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Descriptive Properties	Value	Comments
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Features	Foamable	
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	Medium Molecular Weight	
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Forms	Powder	Fine, White Powder
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Gel Temperature	71 °C	Internal Method; Geon® ALTC 29 (with provided formulation)
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Generic Material	PVC Homopolymer	
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Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
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K-Value	70	Internal Method; Correlation, (0.5gm/100ml)
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Methanol Extractables	2.9%	Internal Method; Geon® STP 894
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Polymerization Process	Microsuspension	
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Processing Method	Coating	
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	Dip Coating	
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	Rotational Molding	
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	Slush Molding	
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Regional Availability	Africa & Middle East	
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	Asia Pacific	
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	Europe	
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	North America	
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	South America	
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Descriptive Properties	Value	Comments
Residual Vinyl Chloride Monomer	< 3 ppm	Internal Method, Geon® STP 1005
Uses	Coating Applications	
	Film	
	Foam	
	Textile Applications	

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