

PolyOne Geon™ 120 Series 121AR Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

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® 121AR, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390(formulation): 100phr Geon® 121AR, and 60phr DOP Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-120-Series-121AR-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	0.320 - 0.400 g/cc	0.0116 - 0.0145 lb/in ³	ASTM D1505
Fineness	2.5	2.5	North Fineness; Geon® 390
Relative Viscosity	2.71 cP	2.71 cP	Correlation
Brookfield Viscosity	3.0 cP	3.0 cP	Initial, V12, Geon® 1010
	4.5 cP	4.5 cP	One Day, V12, Geon® 1010
Viscosity Measurement	1.2	1.2	Inherent; ASTM D1243-60-A
Melt Flow	60 g/10 min	60 g/10 min	Severs Efflux; Geon® 1010
	@Pressure 0.655 MPa	@Pressure 95.0 psi	

Mechanical Properties	Metric	English	Comments
Tensile Strength	21.0 MPa	3050 psi	Optimum; FF; ASTM D638
Elongation at Yield	400 %	400 %	FF; Optimum Tensile; ASTM D412

Optical Properties	Metric	English	Comments
Gloss	62 %	62 %	60°, FF, ALTC-65
Transmission, Visible	71 %	71 %	FF, ATLC-66

Processing Properties	Metric	English	Comments
Moisture Content	0.070 %	0.070 %	Karl Fisher-Geon® 683

Descriptive Properties	Value	Comments
Degree of Polymerization	1750	Correlation
Features	High Molecular Weight	
Forms	Powder	
Gel Temperature	67 °C	FF, ALTC-29
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	77	No Standard; Correlation
Methanol Extractables	2.4%	Geon® 894
Polymerization Process	Dispersion	
Processing Method	Dip Coating	
	Rotational Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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