

PolyOne Geon™ 170 Series 179 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Note: Plastisol Formulation F1 consists of 100 parts of this resin + 60 parts DOP. Note: Plastisol Formulation F2 consists of 100 parts of this resin + 57 parts DOP + 3 parts ESO + 2 parts Synpron® 940. Note: The values 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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-170-Series-179-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/in³	ASTM D1505
Fineness	5.0	5.0	North Fineness; Geon® 390
Relative Viscosity	2.71 cP	2.71 cP	1% Cyclohexanone
Brookfield Viscosity	2.6 cP	2.6 cP	Initial, V12, Geon® 1010
	3.6 cP	3.6 cP	One Day, V12, Geon® 1010
Viscosity Measurement	1.2	1.2	Inherent; ASTM D1243-60-A
Melt Flow	270 g/10 min @Pressure 0.655 MPa	270 g/10 min @Pressure 95.0 psi	Severs Efflux; Geon® 1010

Mechanical Properties	Metric	English	Comments
Tensile Strength	17.9 MPa	2600 psi	Optimum; FF; ASTM D638
Elongation at Yield	350 %	350 %	FF; Optimum Tensile; ASTM D412

Optical Properties	Metric	English	Comments
Gloss	91 %	91 %	60°, FF, ALTC-65
Transmission, Visible	88 %	88 %	FF, ATLC-66

Processing Properties	Metric	English	Comments
Moisture Content	0.050 %	0.050 %	Karl Fisher-Geon® 683

Descriptive Properties	Value	Comments
Degree of Polymerization	1750	Correlation
Features	High Molecular Weight	
	Resilient	
Forms	Powder	
Gel Temperature	95 °C	FF, ALTC-29
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	77	No Standard; Correlation
Methanol Extractables	1.3%	Geon® 894
Polymerization Process	Dispersion	
Processing Method	Casting	
	Dip Coating	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Coating Applications	
	Protective Coatings	

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