

PolyOne Geon™ 130 Series 138 Polyvinyl Chloride Copolymer (PVC Copolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® 138 is a vinyl ester copolymer dispersion resin, exhibiting fast fusion at low processing temperatures, resulting in energy savings and the ability to work with heat sensitive substrates. The vinyl ester copolymers exhibit stable Brookfield Viscosity aging characteristics. It provides mechanically and chemically foamable properties. Geon® 138 is recommended for applications where low processing temperatures are required such as carpet tile and walk off mat backings, plastisol inks, general low temperature processing applications, and automotive sealants. 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® 138, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 138, and 60phr DOP Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-130-Series-138-Polyvinyl-Chloride-Copolymer-PVC-Copolymer.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	2.67 cP	2.67 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	4.33 cP	4.33 cP	Initial Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	4.43 cP	4.43 cP	Initial Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	6.18 cP	6.18 cP	One Day Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	6.3 cP	6.3 cP	One Day Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation)
Viscosity Measurement	1.2	1.2	Inherent; ASTM D1243-60-A
Melt Flow	48 g/10 min	48 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
Tensile Strength	21.0 MPa	3050 psi	Optimum; With provided formulation; ASTM D638

Optical Properties	Metric	English	Comments
Gloss	89 %	89 %	60 Degree Fused 5 mins @ 350F Geon® ALTC 65 (with provided formulation); Internal Method
Transmission, Visible	94 %	94 %	Geon® ALTC 66 (with provided formulation); Internal Method

Processing Properties	Metric	English	Comments
Moisture Content	0.050 %	0.050 %	Karl Fisher Geon® STP 683; Internal Method

Descriptive Properties	Value	Comments
Copolymer Content	4.8%	Internal Method; Geon® STP PT-LA-026
Features	Fast Fusion	
	Low VOC	
Forms	Powder	Fine, White Powder
Gel Temperature	64 °C	Internal Method; Geon® ALTC 29 (with provided formulation)
Generic Material	PVC Copolymer	
Generic Name	Polyvinyl Chloride Copolymer (PVC Copolymer)	
K-Value	75	Internal Method; Correlation, 0.5gm/100ml
Methanol Extractables	2.2%	Internal Method; Geon® STP 894
Polymerization Process	Microsuspension	
Processing Method	Casting	
	Dip Coating	
	Rotational Molding	
	Slush Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

Residual Vinyl Chloride Descriptive Properties	Value ^m	Comments ^{thod; Geon® STP 1005}
Uses	Automotive Applications	
	Carpet Backing	
	Sealants	

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