PolyOne Geon™ 210 Series 217 Blending Resin Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® 217 is a low to medium molecular weight homopolymer blending resin intended for use as a formulation tool in plastisol formulations.It improves air release performance resulting in reduced scrap rates. It decreases high shear viscosity providing an improved 'ease of coating' performance resulting in a more uniform plastisol coating and improving line up time. It reduces viscosity aging characteristics, providing increased plastisol usage (pot life). It reduces surface gloss of films or coated products resulting in less surface blocking and improved handling. Geon® 217 is recommended for solid and foamed plastisol applications such as coated fabric, cast films and coatings, foam mats and pads.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 (formulation): 60phr Geon® 121A, 40phr Geon® 217, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 1203(formulation): 60phr Geon® 178, 40phr Geon® 217,and 60phr DOPInformation provided by PolyOne

Order this product through the following link:
http://www.lookpolymers.com/polymer_PolyOne-Geon-210-Series-217-Blending-Resin-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Volatiles	0.050 %	0.050 %	Geon® STP 1242; Internal Method
Apparent Bulk Density	0.530 g/cc	0.0191 lb/in³	Geon® STP 1169; Internal Method
Particle Size	30 µm	30 µm	Geon® DFT 1466; Internal Method
	<= 52 µm	<= 52 µm	94.2%; Geon® DFT 1466; Internal Method
	<= 74 µm	<= 74 µm	99%; Geon® DFT 1466; Internal Method
Relative Viscosity	2.23 cP	2.23 cP	Cyclohexanone 1%; Internal Method
Brookfield Viscosity	2.3 cP	2.3 cP	One Day Viscosity @ 2rpmGeon® ALTC 22 (with provided formulation); Internal Method
	2.3 cP	2.3 cP	Initial Viscosity @ 2rpmGeon® ALTC 22 (with provided formulation); Internal Method
	2.38 cP	2.38 cP	Initial Viscosity @ 20 rpmGeon® ALTC 22 (with provided formulation); Internal Method
	2.4 cP	2.4 cP	One Day Viscosity @ 20rpmGeon® ALTC 22 (with provided formulation); Internal Method

Physical Properties	Metric	English	Comments
Melt Flow	522 g/10 min @Pressure 0.655 MPa	522 g/10 min @Pressure 95.0 psi	Severs Efflux; Geon® ALTC 23 (with provided formulation); Internal Method

Optical Properties	Metric	English	Comments
Haze	54 % @Temperature 177 °C	54 % @Temperature 351 °F	Fused 5 mins Geon® ALTC 66 (with provided formulation); Internal Method
Gloss	18 % @Temperature 177 °C	18 % @Temperature 351 °F	60° Fused 5 mins Geon® ALTC 65 (with provided formulation); Internal Method

Descriptive Properties	Value	Comments
Features	Foamable	
Forms	Powder	
Gel Temperature	92 °C	Internal Method; Geon® ALTC 29 (with provided formulation)
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	67	No Standard; Correlation, 0.5g/100ml
Polymerization Process	Suspension	
Processing Method	Casting	
	Dip Coating	
	Rotational Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Residual Vinyl Chloride Monomer	< 5 ppm	Internal Method; Geon® STP 1005
Uses	Fabric Coatings	
	Foam	

Descriptive Properties	Value	Comments
Vinyl Dispersion Gauge	96 µm	Internal Method; Geon® STP 1203 (with provided formulation)

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