PolyOne Geon™ FIT E 51 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® FIT E 51 is a medium molecular weight homopolymer resin intended for use as a Formulation Improvement Tool (FIT) in plastisol formulations which enhance the plastisol usage (pot life) and reduce the viscosity aging characteristics. This resin increases the physical properties of end application up to 30% compared to traditional blending resins. It allows the addition of up to 40phr of filler, significantly decreasing formulation costs. It improves air release properties, provides faster de -aeration time and reduces scrap rates caused by the presence of air bubbles or voids in finished part. This resin reduces the viscosity profile of the plastisol providing an improved 'ease of coating' performance resulting a more uniform plastisol coating and improving line up time. Geon® FIT E 51 is recommeded for solid and foamed plastisol applications for instance coated fabrics and carpet tiles, cast films and coatings, rotationally and slush molded parts, dip molded and coated parts, and walk off and 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® FIT E 51, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 1203(formulation): 60phr Geon® 178, 40phr Geon® FIT E 51,and 60phr DOPInformation provided by PolyOne

Order this product through the following link:
http://www.lookpolymers.com/polymer_PolyOne-Geon-FIT-E-51-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Volatiles	0.070 %	0.070 %	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	95%; Geon® DFT 1466; Internal Method
	<= 74 µm	<= 74 µm	99%; Geon® DFT 1466; Internal Method
Relative Viscosity	2.23 cP	2.23 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	2.3 cP	2.3 cP	Initial Viscosity @ 2 rpmGeon® ATLC 22 (with provided formulation); Internal Method
	2.4 cP	2.4 cP	Initial Viscosity @ 20 rpmGeon® ATLC 22 (with provided formulation); Internal Method
	2.4 cP	2.4 cP	One Day Viscosity @ 2 rpmGeon® ATLC 22 (with provided formulation); Internal Method

Physical Properties	Metric	English	Comments
			One Day Viscosity @ 20 rpmGeon® ATLC 22 (with provided formulation); Internal Method
Viscosity Measurement	0.92	0.92	Inherent; ASTM D1243-60-A
Melt Flow	504 g/10 min @Pressure 0.655 MPa	504 g/10 min @Pressure 95.0 psi	Severs Efflux; Geon® ALTC 23 (with provided formulation); Internal Method

Optical Properties	Metric	English	Comments
Haze	58 %	58 %	Fused 5 mins @ 350FGeon® ATLC 66 (with provided formulation); Internal Method
Gloss	16 %	16 %	60 Degree, Fused 5 mins @ 350FGeon® ATLC 65 (with provided formulation); Internal Method

Descriptive Properties	Value	Comments
Forms	Powder	Fine, White Powder
Gel Temperature	91 °C	Internal Method; Geon® ATLC 29 (with provided formulation)
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	67	Internal Method; Correlation, 0.5g/100ml
Polymerization Process	Suspension	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Residual Vinyl Chloride Monomer	< 5 ppm	Internal Method; Geon® DFT 1005
Vinyl Dispersion Gauge	95 µm	Internal Method; Geon® STP 1203 (with provided formulation)

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