Geon™ FIT E 51

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

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.

General Information			
Forms	Powder 1		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.40	g/cm³	ASTM D792
K-Value [1]	67.0		Internal method
Apparent loose density [2]	0.530	g/cm³	Internal method
Intrinsic Viscosity [3]	0.92		ASTM D1243-60-A
Particle Size			Internal method
< 52 micron [4]	95.0	%	Internal method
< 74 micron [5]	99.0	%	Internal method
Average Particle Size [6]	30.0	µm	Internal method
Relative Viscosity [7]	2.23		Internal method
Haze - Fused 5 mins @ 350F [8]	58	%	Internal method
Gloss-60 Degree, Fused 5 mins @ 350F [9]	16	%	Internal method
Brokfield Viscosity			Internal method
Initial Viscosity @ 2 rpm [10]	2.30	Pa·s	Internal method
Initial Viscosity @ 20 rpm [11]	2.40	Pa·s	Internal method
One Day Viscosity @ 2 rpm [12]	2.40	Pa·s	Internal method
One Day Viscosity @ 20 rpm [13]	2.45	Pa·s	Internal method
Cut off the outflow-95 psi [14]	504.00	g/10 min	Internal method
Residual Vinyl Chloride Monomer [15]		ppm	Internal method
Volatiles [16]	0.070	%	Internal method
polymerization process	Suspension		
Gel temperature [17]	91	°C	Internal method
Vinyl diffuser [18]	95.0	µm	Internal method
Additional Information	**Nominal Value**	**Unit**	**Test Method**

Note:The value set forth represent "typical" values and Mexichem Specialty Resins, 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 LOHFGeon® STP 1203(formulation): 60phr Geon® 178, 40phr Geon® FIT E 51,and 60phr DOP

NOTE	
1.	Molten flow equivalent value
2.	Geon® STP 1169
3.	Molten flow equivalent value
4.	Geon® DFT 1466
5.	Geon® DFT 1466
6.	Geon® 812
7.	Molten flow equivalent value
8.	Geon® ATLC 66 (with provided formulation)
9.	Geon® ATLC 65 (with provided formulation)
10.	Geon® 1169
11.	Geon® ATLC 22 (with provided formulation)
12.	Geon® ATLC 22 (with provided formulation)
13.	Geon® ATLC 22 (with provided formulation)
14.	Geon® ATLC 23 (with provided Formulation)
15.	Geon® DFT 1005
16.	Bags, Geon®793
17.	Geon® ATLC 29 (with provided formulation)
18.	Geon® STP 1203 (with provided formulation)

Recommended distributors for this material

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