

Geon™ FIT E 52

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® FIT E 52 is a high 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 52 is recommended for high strength solid and foamed plastisol applications for instance coated fabrics, cast films and coatings, rotationally and slush molded parts, and dip molded and coated parts

General Information			
Forms	Powder 1		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
K-Value ¹	72.0		Internal method
Apparent loose density ²	0.530	g/cm ³	Internal method
Intrinsic Viscosity ³	1.1		ASTM D1243-60-A
Particle Size			Internal method
< 52 micron ⁴	95.0	%	Internal method
< 74 micron ⁵	99.0	%	Internal method
Mean Volume ⁶	30.0	µm	Internal method
Relative Viscosity ⁷	2.54		Internal method
Haze - Fused 5 mins @ 350F ⁸	51	%	Internal method
Gloss-60 Degree, Fused 5 mins @ 350F ⁹	15	%	Internal method
Brokfield Viscosity			Internal method
Initial Viscosity @ 2 rpm ¹⁰	2.10	Pa · s	Internal method
Initial Viscosity @ 20 rpm ¹¹	2.08	Pa · s	Internal method
One Day Viscosity @ 2 rpm ¹²	2.40	Pa · s	Internal method
One Day Viscosity @ 20 rpm ¹³	2.55	Pa · s	Internal method
Cut off the outflow-95 psi ¹⁴	510.00	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	99	°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 52, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHFGeon® STP 1203(formulation): 60phr Geon® 178, 40phr Geon® FIT E 52,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® ALTC 66 (with provided formulation)
9.	Geon® ALTC 65 (with provided formulation)
10.	Geon® 1169
11.	Geon® ALTC 22 (with provided formulation)
12.	Geon® ALTC 22 (with provided formulation)
13.	Geon® ALTC 22 (with provided formulation)
14.	Geon® ALTC 23(with provided formulation)
15.	Geon® STP 1005
16.	Bags, Geon®793
17.	Geon® ALTC 29 (with provided formulation)
18.	Geon® STP 1203 (with provided formulation)

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