

# Geon™ Specialty Suspension Impel S100

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

## Message:

Geon® Impel S100 is a homopolymer specialty suspension resin intended for use in highly plasticized extrusion and injection molding formulations. It gives superior plasticizer absorption properties allowing the production of low durometer compounds. Quick plasticizer uptake provides a reduction of mix time allowing the higher production rate, reducing compounding times and manufacturing costs.

General Information			
Uses	Wire and cable applications		
	Insulating material		
Forms	Powder 1		
Processing Method	Extrusion		
	Calendering		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
K-Value <sup>1</sup>	70.0		Internal method
Contamination			Internal method
Dark Particles <sup>2</sup>	18		Internal method
Light Colored Particles <sup>3</sup>	22		Internal method
Magnetic Particles <sup>4</sup>	0		Internal method
Apparent loose density <sup>5</sup>	0.410	g/cm <sup>3</sup>	Internal method
Intrinsic Viscosity <sup>6</sup>	1.0		ASTM D1243-60-A
Particle Size			Internal method
< 105 micron <sup>7</sup>	14.0	%	Internal method
> 250 micron <sup>8</sup>	4.00	%	Internal method
Average Particle Size <sup>9</sup>	150	µm	Internal method
Relative Viscosity <sup>10</sup>	2.37		Internal method
Powder Mix Time <sup>11</sup>	4.4	min	Internal method
Residual Vinyl Chloride Monomer <sup>12</sup>		ppm	Internal method
Volatiles <sup>13</sup>	0.070	%	Internal method
polymerization process	Suspension		
Porosity <sup>14</sup>	0.530	cm <sup>3</sup> /g	Internal method
Flow time-Conditioned Funnel Flow Time <sup>15</sup>	34.0	sec	Internal method

Additional Information	Nominal Value	Unit	Test Method
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Note: The value set forth represents '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, netweight 50lbs, 2,500lbs per pallet. Information shown on the package includes commercial identification number, lot, and weight. STP 488 (formulation): 100phr Geon® Impel S100, 55phr TOTM, and 18phr Filler

#### NOTE

1.	Interrelationship
2.	Geon® 1217
3.	Geon® 1005
4.	Geon® STP 1217 Unit: #/100in <sup>2</sup>
5.	Geon® STP 1169
6.	Puli 1386
7.	Through the 140 net, Geon® 812
8.	Keep at 40 60 nets, Geon® 812
9.	Geon® 1458
10.	Interrelationship
11.	Geon® STP 488 (with provided formula)
12.	Geon® STP 1005
13.	Bags, Geon® 793
14.	Geon® 1094
15.	Geon® 1169

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#### Recommended distributors for this material

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