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# Polyfil® HG90 Water Washed Kaolin Clay

## PRODUCT DESCRIPTION

**Application** - Polyfil HG90 is an ultra-fine particle size and very high brightness water-washed kaolin clay. It offers modest reinforcement, and is used to lower the cost of non-black rubber and plastic compounds. Water-washed kaolin clays such as Polyfil HG90 offer acid resistance, reinforcement, neutral pH, and extremely low crystalline silica and salt content. Polyfil HG90 has higher brightness than other water washed kaolin clays, and its particle size is similar to titanium dioxide.

**Physical Form** –White, spray dried beads

**Type** - Hydrous Aluminum Silicate

## TYPICAL PHYSICAL PROPERTIES

Brightness, % Reflectance (TAPPI) .....	91
Moisture, 105°C, max., % .....	1.5
Screen Residue, 325 mesh, %.....	0.005
pH, (100 g/250 ml H <sub>2</sub> O) .....	7
Average Stokes Equivalent Particle Diameter, microns .....	0.2
Median Particle Size, microns (Malvern LLS) .....	0.4
Specific Gravity.....	2.60
Bulking Value: lb/gal; gal./lb. ....	21.7; 0.046
Surface Area, BET, m <sup>2</sup> /g .....	21
Oil Absorption, g/100g.....	42
Bulk Density – Loose; Tamped (lbs/ft <sup>3</sup> ).....	50; 56
Crystalline Silica (quartz), %.....	<0.10
Shipping Point .....	Wrens, GA

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