

METAPLAST-85[®]

METAKAOLIN FOR PVC CABLES

METAPLAST-85[®], an anhydrous aluminum silicate produced by the dehydroxylation i.e., heating natural china clay to high temperatures, resulting an increase in hardness and alteration of the particle shape of the kaolin. METAPLAST-85[®] offers excellent volume resistivity, insulation resistance along with mechanical properties, dimension stability and enhanced reinforcement at high extrusion throughput. It is easily dispersible with the host polymer. In PVC Cable Compounding METAPLAST-85[®] is typically used in combination with calcium carbonate fillers, with typical loading levels of 10 to 20 phr, depending on individual formulation requirements.

CHARACTERISTICS	UNIT	METAPLAST-85 [®]
Brightness (ISO)	%	80 - 84
Bulk Density	gm / lit	300 - 400
Oil Absorption	gm / 100 gm	50 - 60
pH (10% Aq. Slurry)	-	5 - 8
Moisture Content	%	Max. 0.5
Residue on 400#	%	Max. 0.2

Particle Size Distribution on Sedigraph

Average particle size D_{50}	μm	0.9 - 1.5
Below 2μ	%	67 - 73
Below 10μ	%	95 - 99

KEY BENEFITS

- Excellent volume resistivity and IR in Cable compounds
- Provides excellent synergy of mechanical properties
- Minimize cable degradation and improves its stability
- Maintain high degree of surface gloss.
- Enhance di-electrical properties

APPLICATIONS

- PVC and PE Cable compounds

