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Polyfil[®] DLX

Water Washed Kaolin Clay

PRODUCT DESCRIPTION

Application - Polyfil DLX is large particle size, delaminated clay that reduces gas/vapor permeability. It is a type of water-washed clay which is processed to have a high aspect ratio. Large, platy particles provide effective barriers to gases and liquids and help improve gas retention properties in rubber inner liners and other applications. In the delamination process, KaMin processes kaolin particles (stacks of platelets, as they are found in nature) into special wet-grinding, attrition mills. The clay stacks are reduced to thin kaolin platelets.

Physical Form – Spray dried beads

Type – Delaminated, hydrated aluminum silicate

TYPICAL PHYSICAL PROPERTIES

Brightness, % Reflectance (TAPPI).....	88
Moisture, 105°C, max., %.....	1.5
Screen Residue, 325 mesh, %	0.005
pH, (100 g/250 ml H ₂ O).....	7
Average Stokes Equivalent Particle Diameter, microns	1.2
Median Particle Size, microns (Malvern, LLS)	6.7
Specific Gravity	2.60
Bulking Value: lb/gal; gal/lb.....	21.7; 0.046
Surface Area, BET, m ² /g	12
Oil Absorption, g/100g	42
Bulk Density – Loose; Tamped (lbs/ft ³).....	40; 45
Crystalline Silica (quartz), %.....	<0.10
Shipping Point.....	Macon, GA

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