

Old Hickory M-33 Kentucky Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

The M-33 ball clay is a carbonaceous selection that bears similarity to some clays found in the Southwestern section of England. It has a uniquely waxy type of plasticity and provides high green and dry strength to a variety of white ware ceramic formulations. especially sanitary ware. The organic content is largely of colloidal size, which offers the added advantage of rheology stability and ease of casting slip deflocculation. Due to this rich source of colloidal organic content, our M-33 should be considered as an additive type clay in percentages of 50% or less of the total ball clay content of white ware formula. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-M-33-Kentucky-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	44% of particles less than
	0.67 µm	0.67 µm	Median particle diameter
	1.0 µm	1.0 µm	61% of particles less than
	<= 5.0 µm	<= 5.0 µm	86% of particles less than
pH	6.3	6.3	
Soluble Sulfates	230 ppm	230 ppm	
Specific Surface Area	22.1 m ² /g	22.1 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00483 GPa	0.700 ksi	Dry Modulus of Rupture for 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	5.2 %	5.2 %	Cone 04, Linear Fired Shrinkage
	8.5 %	8.5 %	Cone 3, Linear Fired Shrinkage
	9.0 %	9.0 %	Linear Drying Shrinkage
	11.6 %	11.6 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al2O3	24.98 %	24.98 %	
CaO	1.69 %	1.69 %	

Component Elements Properties	Metric	English	Comments
K2O	0.080 %	0.080 %	
Loss on Ignition(%)	16.06 %	16.06 %	
MgO	0.29 %	0.29 %	
Na2O	0.61 %	0.61 %	
SiO2	53.55 %	53.55 %	
TiO2	1.69 %	1.69 %	

Descriptive Properties	Value	Comments
Absorption (%)	1	Cone 11, Fired
	13.5	Cone 04, Fired
	6.2	Cone 3, Fired
CEC/MBI (meg/100 ml)	13.6	
Crude Color	Dark Brown	
Filtration (ml)	14	
Pyrometric Cone Equivalent (PCE)	31	
Water of Plasticity (%)	38	
Wet Sieve Residue (%)	3.29	Wet Sieve Residue, +200 mesh

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China