

Old Hickory MCB-11 Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

A clay with excellent kaolin content and virtually no carbon content. It is highly plastic with excellent fired brightness and is an excellent clay for a variety of ceramic glaze and porcelain compositions. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-MCB-11-Tennessee-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.46 µm	0.46 µm	Median particle diameter
	0.50 µm	0.50 µm	56% of particles less than
	1.0 µm	1.0 µm	68% of particles less than
	<= 5.0 µm	<= 5.0 µm	89% of particles less than
pH	5.8	5.8	
Soluble Sulfates	150 ppm	150 ppm	
Specific Surface Area	21.4 m ² /g	21.4 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00345 GPa	0.500 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	6.58 %	6.58 %	Linear Drying Shrinkage

Component Elements Properties	Metric	English	Comments
Al2O3	29.47 %	29.47 %	
CaO	0.10 %	0.10 %	
Fe2O3	1.11 %	1.11 %	
K2O	0.51 %	0.51 %	
Loss on Ignition(%)	9.86 %	9.86 %	
MgO	0.35 %	0.35 %	
Na2O	0.080 %	0.080 %	
SiO2			

Component Elements Properties	56.47 % Metric	56.47 % English	Comments
TiO2	2.08 %	2.08 %	

Descriptive Properties	Value	Comments
CEC/MBI (meg/100 ml)	7.4	
Crude Color	Light Grey	
Filtration (ml)	25	
Water of Plasticity (%)	35.5	
Wet Sieve Residue (%)	0.29	Wet Sieve Residue, +200 mesh

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