

Old Hickory Volunteer Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

A versatile clay selection for casting, pressing, or plastic forming process methods. It is similar to M-23 in mineralogy with slightly more organic content. Volunteer has very good plasticity and is an excellent selection in ceramic formulas requiring a fine particle size distribution ball clay. Information provided by Old Hickory Clay Company

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	52% of particles less than
	0.51 µm	0.51 µm	Median particle diameter
	1.0 µm	1.0 µm	62% of particles less than
	<= 5.0 µm	<= 5.0 µm	84% of particles less than
pH	5.4	5.4	
Soluble Sulfates	200 ppm	200 ppm	
Specific Surface Area	20.9 m ² /g	20.9 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00390 GPa	0.565 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	6.2 %	6.2 %	Cone 04, Linear Fired Shrinkage
	7.0 %	7.0 %	Cone 3, Linear Fired Shrinkage
	7.85 %	7.85 %	Linear Drying Shrinkage
	8.7 %	8.7 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al2O3	27.55 %	27.55 %	
CaO	0.10 %	0.10 %	
Fe2O3	0.99 %	0.99 %	
K2O	0.43 %	0.43 %	

Component Elements Properties	Metric	English	Comments
MgO	0.26 %	0.26 %	
Na2O	0.080 %	0.080 %	
SiO2	59.11 %	59.11 %	
TiO2	2.09 %	2.09 %	

Descriptive Properties	Value	Comments
Absorption (%)	11.2	Cone 3, Fired
	17.2	Cone 04, Fired
	3.6	Cone 11, Fired
CEC/MBI (meg/100 ml)	7.7	
Crude Color	Light Grey	
Filtration (ml)	24	
Pyrometric Cone Equivalent (PCE)	31-32	
Water of Plasticity (%)	38.3	
Wet Sieve Residue (%)	0.75	Wet Sieve Residue, +200 mesh

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