Old Hickory 56-SR Kentucky Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

This is a kaolinitic clay with excellent extrusion and die pressing characteristics. It has some colloidal carbon content but only a moderate amount of shrinkage. This clay is suitable for a variety of refractory compositions or other ceramic formulations such as stoneware.Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-56-SR-Kentucky-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	48% of particles less than
	0.65 µm	0.65 µm	Median particle diameter
	1.0 µm	1.0 µm	60% of particles less than
	<= 5.0 µm	<= 5.0 µm	85% of particles less than
pH	5.0	5.0	
Soluble Sulfates	350 ppm	350 ppm	
Specific Surface Area	20.3 m²/g	20.3 m²/g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00414 GPa	0.600 ksi	Dry Modulus of Rupture for 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	4.7 %	4.7 %	Cone 04, Linear Fired Shrinkage
	4.9 %	4.9 %	Cone 3, Linear Fired Shrinkage
	6.6 %	6.6 %	Cone 11, Linear Fired Shrinkage
	7.0 %	7.0 %	Linear Drying Shrinkage

Component Elements Properties	Metric	English	Comments
Al2O3	27.99 %	27.99 %	
CaO	0.15 %	0.15 %	
Fe2O3	1.1 %	1.1 %	
K2O	0.69 %	0.69 %	

Component Elements Properties	Metric%	English	Comments
MgO	0.34 %	0.34 %	
Na2O	0.080 %	0.080 %	
SiO2	57 %	57 %	
TiO2	2.1 %	2.1 %	

Descriptive Properties	Value	Comments
Absorption (%)	11.6	Cone 04, Fired
	4.3	Cone 11, Fired
	9.4	Cone 3, Fired
CEC/MBI (meg/100 ml)	8.7	
Crude Color	Brown	
Filtration (ml)	22	
Pyrometric Cone Equivalent (PCE)	32	
Water of Plasticity (%)	33	
Wet Sieve Residue (%)	1.04	Wet Sieve Residue, +200 mesh

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