

Old Hickory FC-120 Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

The FC-120 clay is a special selection for sanitaryware. It is very fast casting and is designed to use in combination with the C-33A or other finer particle size distribution clay. The FC-120 provides excellent casting rate in a sanitaryware formula while maintaining a long plasticity range for trimming and finishing operations. The unique mineralogy of FC-120 also provides good dry strength by comparison to the fast casting rate. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-FC-120-Tennessee-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	40% of particles less than
	1.0 µm	1.0 µm	51% of particles less than
	1.48 µm	1.48 µm	Median particle diameter
	<= 5.0 µm	<= 5.0 µm	77% of particles less than
pH	5.4	5.4	
Soluble Sulfates	530 ppm	530 ppm	
Specific Surface Area	18.3 m ² /g	18.3 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00410 GPa	0.595 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	4.5 %	4.5 %	Cone 04, Linear Fired Shrinkage
	6.0 %	6.0 %	Cone 3, Linear Fired Shrinkage
	8.0 %	8.0 %	Cone 11, Linear Fired Shrinkage
	8.5 %	8.5 %	Linear Drying Shrinkage

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	26.34 %	26.34 %	
CaO	0.13 %	0.13 %	
Fe ₂ O ₃	1.21 %	1.21 %	

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	9.86 %	9.86 %	
MgO	0.40 %	0.40 %	
Na2O	0.080 %	0.080 %	
SiO2	59.18 %	59.18 %	
TiO2	1.8 %	1.8 %	

Descriptive Properties	Value	Comments
Absorption (%)	15.8	Cone 04, Fired
	2.9	Cone 11, Fired
	9.9	Cone 3, Fired
CEC/MBI (meg/100 ml)	7	
Crude Color	Light Brown	
Filtration (ml)	31	
Pyrometric Cone Equivalent (PCE)	29	
Water of Plasticity (%)	35	
Wet Sieve Residue (%)	0.57	Wet Sieve Residue, +200 mesh

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