

Old Hickory FC-340 Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

The FC-340 clay is designed for all types of casting formulas ranging from low fire earthenware to vitreous composition. It has excellent response to deflocculation and a very good casting rate while maintaining plasticity and dry strength qualities. FC-340 can be used as the complete ball clay content in a casting body or used in combination with a fine particle size distribution ball clay to improve the casting properties of the formulation. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-FC-340-Tennessee-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	40% of particles less than
	0.99 µm	0.99 µm	Median particle diameter
	1.0 µm	1.0 µm	52% of particles less than
	<= 5.0 µm	<= 5.0 µm	79% of particles less than
pH	5.4	5.4	
Soluble Sulfates	435 ppm	435 ppm	
Specific Surface Area	20 m ² /g	20 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00386 GPa	0.560 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	4.2 %	4.2 %	Cone 04, Linear Fired Shrinkage
	5.9 %	5.9 %	Cone 3, Linear Fired Shrinkage
	6.35 %	6.35 %	Linear Drying Shrinkage
	7.8 %	7.8 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	27.09 %	27.09 %	
CaO	0.16 %	0.16 %	
Fe ₂ O ₃	1.43 %	1.43 %	

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	9.45 %	9.45 %	
MgO	0.47 %	0.47 %	
Na2O	0.10 %	0.10 %	
SiO2	58.58 %	58.58 %	
TiO2	1.58 %	1.58 %	

Descriptive Properties	Value	Comments
Absorption (%)	10.7	Cone 3, Fired
	16.1	Cone 04, Fired
	3.7	Cone 11, Fired
CEC/MBI (meg/100 ml)	7.3	
Crude Color	Tan to Light Grey	
Filtration (ml)	29	
Pyrometric Cone Equivalent (PCE)	29-31	
Water of Plasticity (%)	34	
Wet Sieve Residue (%)	0.62	Wet Sieve Residue, +200 mesh

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