

Imerys Diamond,ç Kaolin

Category : Ceramic , Clay , Kaolin Clay , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Diamond is an intermediate-grained montmorillonite kaolin used primarily in plastic formed bodies. This kaolin is known for its good strength and white-firing characteristics. Information provided by Imerys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Imerys-Diamond-Kaolin.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 Åµm	0.50 Åµm	38% finer than
	1.0 Åµm	1.0 Åµm	59% finer than
	2.0 Åµm	2.0 Åµm	68% finer than
	5.0 Åµm	5.0 Åµm	83% finer than
	10 Åµm	10 Åµm	93% finer than
	20 Åµm	20 Åµm	97% finer than
	Particle Mesh Size	325 Mesh	325 Mesh
pH	4.8	4.8	
Specific Surface Area	18 mÅ²/g	18 mÅ²/g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00310 GPa	0.450 ksi	Extruded 50/50 Clay/Flint

Component Elements Properties	Metric	English	Comments
Al2O3	37.9 %	37.9 %	
CaO	0.20 %	0.20 %	
Carbon, C	0.060 %	0.060 %	
Fe2O3	0.60 %	0.60 %	
K2O	0.20 %	0.20 %	
Loss on Ignition(%)	13.5 %	13.5 %	
MgO	0.10 %	0.10 %	
Na2O	0.10 %	0.10 %	

SiO2 Component Elements Properties	45.6 % Metric	45.6 % English	Comments
Sulfur, S	0.070 %	0.070 %	
TiO2	1.4 %	1.4 %	

Descriptive Properties	Value	Comments
M.B.I. (meq/100g)	6.5	

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