

Nabaltec APYRAL® 33 Al(OH)3

Category : Ceramic , Oxide , Aluminum Oxide , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

APYRAL ® from Nabaltec is an environmentally friendly halogen free product which is used as a flame retardant filler in a wide variety of rubber and polymeric materials. During thermal decomposition APYRAL ® does not generate toxic or corrosive gases. In addition, there is a distinct reduction in smoke density. APYRAL ® is effective in the crucial phase of the burning process before the outbreak of a fully developed fire. APYRAL ® can be used as a flame retardant filler in ThermosetsElastomersThermoplasticsCable CompoundsTechnical Rubber CompoundsPressed and cast Plastic PartsThermal Insulation FoamsGlass-fiber reinforced plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nabaltec-APYRAL-33-AIOH3.php

Physical Properties	Metric	English	Comments
Bulk Density	0.550 g/cc	0.0199 lb/in ³	
Density	2.40 g/cc	0.0867 lb/in ³	
Brightness	96 % @Wavelength 457 nm	96 % @Wavelength 457 nm	Whiteness; Elrepho
Oil Absorption	15 %	15 %	ml/100 g
Moisture Absorption at Equilibrium	0.15 %	0.15 %	
Loss On Ignition	34.6 % @Temperature 105 - 1000 °C	34.6 % @Temperature 221 - 1830 °F	
Particle Size	6.0 µm	6.0 µm	Median Grain Diameter
Specific Surface Area	3.0 m ² /g	3.0 m ² /g	BET

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	3	3	

Optical Properties	Metric	English	Comments
Refractive Index	1.58	1.58	

Component Elements Properties	Metric	English	Comments
Fe2O3	0.010 %	0.010 %	
Na2O	0.20 %	0.20 %	
SiO2	0.010 %	0.010 %	

Component Elements Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	16667 ohm-cm	16667 ohm-cm	

Descriptive Properties	Value	Comments
Al(OH) ₃ wt %	99.7	
Crystal Structure	Gibbsite	
Sieve Analysis (%)	0.1	> 45 μm

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