

Nabaltec APYRAL® 40CD 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-40CD-AIOH3.php

Physical Properties	Metric	English	Comments
Bulk Density	0.400 g/cc	0.0145 lb/in³	
Density	2.40 g/cc	0.0867 lb/in³	
Brightness	98 % @Wavelength 457 nm	98 % @Wavelength 457 nm	Whiteness; Elrepho
Oil Absorption	22 %	22 %	ml/100 g
Moisture Absorption at Equilibrium	0.20 %	0.20 %	
Loss On Ignition	34.6 % @Temperature 105 - 1000 °C	34.6 % @Temperature 221 - 1830 °F	
Particle Size	1.3 µm	1.3 µm	Median Grain Diameter
Specific Surface Area	3.5 m²/g	3.5 m²/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	0.40 %	0.40 %	
SiO2	0.010 %	0.010 %	

Component Elements Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	33333 ohm-cm	33333 ohm-cm	

Descriptive Properties	Value	Comments
Al(OH)3 wt %	99.5	
Crystal Structure	Gibbsite	
Mechanical Properties as Additive	Elongation at break: 210 %	
	Tensile Strength: 14 Mpa	HFFR-EVA cable compound
Sieve Analysis (%)	0.01	> 45 µm

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