

Nabaltec APYRAL® 60D 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-60D-AlOH3.php

Physical Properties	Metric	English	Comments
Bulk Density	0.350 g/cc	0.0126 lb/in³	
Density	2.40 g/cc	0.0867 lb/in³	
Brightness	98 % @Wavelength 457 nm	98 % @Wavelength 457 nm	Whiteness; Elrepho
Oil Absorption	33 %	33 %	ml/100 g
Moisture Absorption at Equilibrium	0.30 %	0.30 %	
Loss On Ignition	34.6 % @Temperature 105 - 1000 °C	34.6 % @Temperature 221 - 1830 °F	
Particle Size	1.0 µm	1.0 µm	Median Grain Diameter
Specific Surface Area	6.0 m²/g	6.0 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	20000 ohm-cm	20000 ohm-cm	

Descriptive Properties	Value	Comments
Al(OH)3 wt %	99.5	
Crystal Structure	Gibbsite	
Mechanical Properties as Additive	Elongation at break: 160 %	
	MVR: 1.6 cm ³ /10min	
	Tensile Strength: 14.2 Mpa	HFFR-EVA cable compound
Sieve Analysis (%)	0.02	> 45 µm

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