

## Nabaltec APYRAL® 120E 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-120E-AIOH3.php](http://www.lookpolymers.com/polymer_Nabaltec-APYRAL-120E-AIOH3.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.200 g/cc	0.00723 lb/in <sup>3</sup>	
Density	2.40 g/cc	0.0867 lb/in <sup>3</sup>	
Brightness	98 % @Wavelength 457 nm	98 % @Wavelength 457 nm	Whiteness; Elrepho
Oil Absorption	37 %	37 %	ml/100 g
Moisture Absorption at Equilibrium	0.50 %	0.50 %	
Loss On Ignition	34.6 % @Temperature 105 - 1000 °C	34.6 % @Temperature 221 - 1830 °F	
Particle Size	0.90 µm	0.90 µm	Median Grain Diameter
Specific Surface Area	11 m <sup>2</sup> /g	11 m <sup>2</sup> /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	10000 ohm-cm	10000 ohm-cm	

Descriptive Properties	Value	Comments
Al(OH) <sub>3</sub> wt %	99.5	
Crystal Structure	Gibbsite	
Mechanical Properties as Additive	Elongation at break: 140 %	
	MVR: 0.7 cm <sup>3</sup> /10min	
	Tensile Strength: 15 Mpa	HFFR-EVA cable compound
Sieve Analysis (%)	0.03	> 45 μm

## Contact Songhan Plastic Technology Co.,Ltd.

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