

Nabaltec APYRAL® 60 VS1 Al(OH)3

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

Material Notes:

The high quality and performance of our surface treated APYRAL® 40VS1 and APYRAL® 60VS1 powders complete the APYRAL® product range for highly specialized applications. Examples include, excellent tracking resistance in electronics and extreme low water absorption of HFFR cable compounds, where vinylsilane modified APYRAL® products are almost indispensable. 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-60-VS1-AIOH3.php

Physical Properties	Metric	English	Comments
Density	2.40 g/cc	0.0867 lb/in ³	
Brightness	91 % @Wavelength 457 nm	91 % @Wavelength 457 nm	Whiteness; Elrepho
Oil Absorption	45 %	45 %	ml/100 g
Loss On Ignition	35.0 % @Temperature 105 - 1000 °C	35.0 % @Temperature 221 - 1830 °F	
Particle Size	1.3 µm	1.3 µm	Median Grain Diameter
Specific Surface Area	6.0 m ² /g	6.0 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	0.40 %	0.40 %	
SiO2	0.30 %	0.30 %	

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	20000 ohm-cm Metric	20000 ohm-cm English	Comments
Descriptive Properties	Value		Comments
Al(OH)3 wt %	98.5		
Mechanical Properties as Additive	Elongation at break: 210 %		
	Tensile Strength: 16 Mpa		HFFR-EVA cable compound
Sieve Analysis (%)	0.05		> 45 µm

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