Nabaltec APYRAL® 40 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 APRYAL® 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-40-VS1-AlOH3.php

Physical Properties	Metric	English	Comments
Density	2.40 g/cc	0.0867 lb/in³	
Brightness	91 % @Wavelength 457 nm	91 % @Wavelength 457 nm	Whiteness; Elrepho
Oil Absorption	33 %	33 %	ml/100 g
Loss On Ignition	35.0 % @Temperature 105 - 1000 °C	35.0 % @Temperature 221 - 1830 °F	
Particle Size	1.5 µm	1.5 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	0.20 %	0.20 %	
SiO2	0.30 %	0.30 %	

Electrical 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 %	98.5	
Mechanical Properties as Additive	Elongation at break: 240 %	
	Tensile Strength: 14 Mpa	HFFR-EVA cable compound
Sieve Analysis (%)	0.05	> 45 μm

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