

Nyco M325 WOLLASTOCOAT® Wollastonite

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

Material Notes:

Wollastonite is a naturally occurring white mineral with an acicular (needle-shaped) particle structure. This distinctive particle morphology makes wollastonite an ideal performance mineral for a broad range of industrial and consumer applications, including polymer reinforcement; coatings; construction/architecture reinforcement; enhancing friction stability in discs, lings, and brakes; and metallurgy. Information provided by NYCO Minerals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nyco-M325-WOLLASTOCOAT-Wollastonite.php

Physical Properties	Metric	English	Comments
Bulk Density	0.730 g/cc	0.0264 lb/in ³	Loose
	1.20 g/cc	0.0434 lb/in ³	Tapped
Density	2.90 g/cc	0.105 lb/in ³	
Brightness	87 %	87 %	G.E. Brightness
Oil Absorption	21 %	21 %	
Solubility in Water	0.0095 %	0.0095 %	
Moisture Absorption	0.100 %	0.100 %	
Particle Size	>= 2.0 µm	>= 2.0 µm	10% smaller than
	12 µm	12 µm	median; Microtrac
	<= 32 µm	<= 32 µm	90% smaller than
pH	9.9	9.9	10% Slurry
Specific Surface Area	1.5 m ² /g	1.5 m ² /g	BET
Molecular Weight	116 g/mol	116 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	4.5	4.5	
Tensile Strength	2700 - 4100 MPa	392000 - 595000 psi	Fiber Strength
	@Diameter 0.00300 - 0.150 mm	@Diameter 0.000118 - 0.00591 in	
Modulus of Elasticity	303 - 530 GPa	43900 - 76900 ksi	Fiber Modulus
	@Diameter 0.00300 - 0.150 mm	@Diameter 0.000118 - 0.00591 in	

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	6.50 µm/m-°C	3.61 µin/in-°F	
Thermal Conductivity	2.63 - 2.77 W/m-K	18.3 - 19.2 BTU-in/hr-ft²-°F	
Melting Point	1410 °C	2570 °F	ASTM D1857
	1540 °C	2800 °F	theoretical

Optical Properties	Metric	English	Comments
Refractive Index	1.63	1.63	

Component Elements Properties	Metric	English	Comments
Al2O3	0.30 %	0.30 %	
CaO	44.94 %	44.94 %	
Fe2O3	0.28 %	0.28 %	
K2O	0.23 %	0.23 %	
Loss on Ignition(%)	0.47 %	0.47 %	
MgO	0.75 %	0.75 %	
MnO	0.040 %	0.040 %	
SiO2	52.94 %	52.94 %	
TiO2	0.050 %	0.050 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.30e+13 ohm-cm	1.30e+13 ohm-cm	pure wollastonite
Dielectric Constant	6.8	6.8	
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	6.8	6.8	
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	6.9	6.9	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	6.9	6.9	

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.00152	0.00152	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0046	0.0046	
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	0.0046	0.0046	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0078	0.0078	
	@Frequency 100000 Hz	@Frequency 100000 Hz	

Descriptive Properties	Value	Comments
Appearance	White	
Bulking Value (gal./lbs.)	0.0413	
Minus 325 U.S. Mesh Screen (%)	99	
Morphology	Acicular	

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