

TIMCAL TIMREX® SFG6 Primary Synthetic Graphite

Category : Carbon , Graphite , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

TIMREX Primary Synthetic Graphite is produced in a unique highly controlled graphitization process which assures narrow specifications and unequalled consistent quality due to: monitoring of all production and processing stages, strict final inspection, and clearly defined development processes. TIMREX Primary Synthetic Graphite shows unique properties thanks to the combination of a consistent purity, perfect crystalline structure and well defined texture. Tribological and mechanical properties: Low toughness Good lubrication properties Advantages and applications: Very low friction coefficient Low wear of the counterpart Extreme good formation of transfer-film Very high electrical conductivity Excellent wettability with organic binders Excellent compressibility High transverse rupture strengthsuitable for pitch-bonded, resin-bonded and metallic brushes Information provided by TIMCAL

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMCAL-TIMREX-SFG6-Primary-Synthetic-Graphite.php

Physical Properties	Metric	English	Comments
Bulk Density	0.0700 g/cc	0.00253 lb/in ³	Scott
Particle Size	5.0 µm	5.0 µm	at a density of 1.90 g/cc, pressure 2.5 t/cc
	5.0 µm	5.0 µm	Springback 8%, pressure 0.477 t/cc
	5.5 - 7.5 µm	5.5 - 7.5 µm	d90, Guaranteed
	10 µm	10 µm	at a density of 1.92 g/cc, pressure 2.5 t/cc
	12.8 µm	12.8 µm	d90, Typical
	42 µm	42 µm	at a density of 2.03 g/cc, pressure 2.5 t/cc
	75 µm	75 µm	at a density of 2.03 g/cc, pressure 2.5 t/cc
	75 µm	75 µm	Springback 75%, pressure 0.477 t/cc
Specific Surface Area	17 m ² /g	17 m ² /g	BET
Ash	0.070 %	0.070 %	Typical
	<= 0.10 %	<= 0.10 %	Guaranteed

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.750 ohm-cm	0.750 ohm-cm	particle size 75 um, pressure 2.5 t/cc
	0.800 ohm-cm	0.800 ohm-cm	particle size 40 um, pressure 2.5 t/cc
	1.45 ohm-cm	1.45 ohm-cm	particle size 15 um, pressure 2.5 t/cc

Electrical Properties	Metric ^{m-cm}	English ^{m-cm}	Comments # 10 um, pressure 2.5 t/cc
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Processing Properties	Metric	English	Comments
Moisture Content	0.10 %	0.10 %	Typical
	<= 0.50 %	<= 0.50 %	Guaranteed

Descriptive Properties	Value	Comments
Crystallinity Height, Lc	>100 nm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China