

## TIMCAL TIMREX® SFG44 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-SFG44-Primary-Synthetic-Graphite.php](http://www.lookpolymers.com/polymer_TIMCAL-TIMREX-SFG44-Primary-Synthetic-Graphite.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.190 g/cc	0.00686 lb/in <sup>3</sup>	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
	10 µm	10 µm	at a density of 1.92 g/cc, pressure 2.5 t/cc
	42 µm	42 µm	at a density of 2.03 g/cc, pressure 2.5 t/cc
	44 - 53 µm	44 - 53 µm	d90, Guaranteed
	48.8 µm	48.8 µm	d90, Typical
	75 µm	75 µm	at a density of 2.03 g/cc, pressure 2.5 t/cc
	75 µm	75 µm	Springback 6.5%, pressure 0.477 t/cc
Specific Surface Area	5.0 m <sup>2</sup> /g	5.0 m <sup>2</sup> /g	BET
Ash	<= 0.10 %	<= 0.10 %	Guaranteed
	0.70 %	0.70 %	Typical

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 <sup>m-cm</sup>	English <sup>m-cm</sup>	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, Lc	>200 nm	

## Contact Songhan Plastic Technology Co.,Ltd.

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