

TIMCAL TIMREX® KS5-44 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: Medium toughness Good lubrication properties Advantages and applications: Low friction coefficient Low wear of the counterpart Good transfer-film formation High electrical conductivity Suitable for pitch-bonded and resin-bonded brushes Information provided by TIMCAL

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMCAL-TIMREX-KS5-44-Primary-Synthetic-Graphite.php

Physical Properties	Metric	English	Comments
Particle Size	5.0 µm	5.0 µm	at a density of 1.81 g/cc, pressure at 2.5 t/cc
	5.0 µm	5.0 µm	Springback 11.5%, pressure 0.477 t/cc
	13 µm	13 µm	at a density of 1.90 g/cc, pressure at 2.5 t/cc
	20 µm	20 µm	Springback 13%, pressure 0.477 t/cc
	45 µm	45 µm	at a density of 1.85 g/cc, pressure at 2.5 t/cc
	75 µm	75 µm	at a density of 1.73 g/cc, pressure at 2.5 t/cc
	75 µm	75 µm	Springback 17%, pressure 0.477 t/cc
Specific Surface Area	5.9 m ² /g	5.9 m ² /g	BET
Ash	0.020 %	0.020 %	Typical

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.55 ohm-cm	1.55 ohm-cm	particle size 80 um, pressure 2.5 t/cc
	1.60 ohm-cm	1.60 ohm-cm	particle size 42 um, pressure 2.5 t/cc
	1.80 ohm-cm	1.80 ohm-cm	particle size 15 um, pressure 2.5 t/cc
	2.25 ohm-cm	2.25 ohm-cm	particle size 10 um, pressure 2.5 t/cc

Processing Properties	Metric	English	Comments
Moisture Content	0.030 %	0.030 %	Typical

Descriptive Properties	Value	Comments
Crystallite Height	> 100 nm	

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