

TIMCAL TIMREX® T44 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: High toughness Good lubrication properties Advantages and applications: Low friction coefficient Low wear of the counterpart and low self-wear Good transfer-film formation Medium electrical conductivity Medium density of brushes and parts 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-T44-Primary-Synthetic-Graphite.php

Physical Properties	Metric	English	Comments
Bulk Density	0.180 g/cc	0.00650 lb/in ³	Scott
Particle Size	43 µm	43 µm	springback 20.5%, pressure of 0.477 t/cc
	37 - 52 µm	37 - 52 µm	d90, Guaranteed
	45 µm	45 µm	at a density of 1.55 g/cc, pressure of 2.5 t/cc
	57.5 µm	57.5 µm	d90, Typical
	75 µm	75 µm	springback 23%, pressure of 0.477 t/cc
	80 µm	80 µm	at a density of 1.48 g/cc, pressure of 2.5 t/cc
	145 µm	145 µm	at a density of 1.39 g/cc, pressure of 2.5 t/cc
Specific Surface Area	145 µm	145 µm	springback 24%, pressure of 0.477 t/cc
	10 m ² /g	10 m ² /g	BET
Ash	0.070 %	0.070 %	Typical
	<= 0.10 %	<= 0.10 %	Guaranteed

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.30	0.30	Friction coefficient of sintered Cu-C - brake pads with 10% TIMREX® T Graphite as a function of the particle size, Sinter density: 55% of the theoret. density
	@Temperature 850 °C, Time 10800 sec	@Temperature 1560 °F, Time 3.00 hour	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.25 ohm-cm	2.25 ohm-cm	particle size 40 um, pressure of 2.5 t/cc
	2.50 ohm-cm	2.50 ohm-cm	particle size 70 um, pressure of 2.5 t/cc

Processing Properties	Metric	English	Comments
Moisture Content	0.10 %	0.10 %	Typical
	<= 0.50 %	<= 0.50 %	Guaranteed

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