

TIMCAL TIMREX® T150 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-T150-Primary-Synthetic-Graphite.php

Physical Properties	Metric	English	Comments
Bulk Density	0.510 g/cc	0.0184 lb/in ³	Tap
Particle Size	43 µm	43 µm	springback 20.5%, pressure 0.477 t/cc
	70 µm	70 µm	at a density of 2.20 g/cc
	75 µm	75 µm	springback 23%, pressure 0.477 t/cc
	145 µm	145 µm	springback 24%, pressure 0.477 t/cc
	<= 180 µm	<= 180 µm	>95%, Guaranteed
	>= 180 µm	>= 180 µm	0.5%
	625 µm	625 µm	at a density of 2.10 g/cc
	1500 µm	1500 µm	at a density of 2.02 g/cc
Deformation	1.1 %	1.1 %	elastic
	2.6 %	2.6 %	plastic
	3.7 %	3.7 %	plastic + elastic
Ash	0.090 %	0.090 %	Typical
	<= 0.15 %	<= 0.15 %	Guaranteed

Thermal Properties	Metric	English	Comments
Thermal Conductivity	130 W/m-K	902 BTU-in/hr-ft ² -°F	

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

Processing Properties	Metric	English	Comments
Moisture Content	0.050 %	0.050 %	Typical
	<= 0.30 %	<= 0.30 %	Guaranteed

Descriptive Properties	Value	Comments
Crystallite height Lc	>100 nm	
DBP absorption	59 g/100g	(Dibutylphthalate)

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