

TIMCAL TIMREX® KS150 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 Copper/bronze bearings Copper friction parts copper clutch facings Information provided by TIMCAL

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMCAL-TIMREX-KS150-Primary-Synthetic-Graphite.php

Physical Properties	Metric	English	Comments
Bulk Density	0.420 g/cc	0.0152 lb/in ³	Scott
	0.510 g/cc	0.0184 lb/in ³	Tap
Particle Size	5.0 µm	5.0 µm	Springback 11.5%, pressure 0.477 t/cc
	20 µm	20 µm	Springback 13%, pressure 0.477 t/cc
	>= 63 µm	>= 63 µm	d50, 40%, Vibrated sieving
	75 µm	75 µm	Springback 17%, pressure 0.477 t/cc
	>= 100 µm	>= 100 µm	d90, 20%, Vibrated sieving
	<= 180 µm	<= 180 µm	>95%, Guaranteed
	>= 180 µm	>= 180 µm	0.2%
	550 µm	550 µm	at a density of 2.16 g/cc
Specific Surface Area	1000 µm	1000 µm	at a density of 2.12 g/cc
	3.0 m ² /g	3.0 m ² /g	BET
Deformation	1.4 %	1.4 %	plastic
	1.4 %	1.4 %	elastic
	2.8 %	2.8 %	plastic + elastic
Ash	0.060 %	0.060 %	Typical
	<= 0.10 %	<= 0.10 %	Guaranteed

Thermal Properties	Metric	English	Comments
Thermal Conductivity	140 W/m-K	972 BTU-in/hr-ft ² -°F	

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	0.050 %	0.050 %	Typical
	<= 0.50 %	<= 0.50 %	Guaranteed

Descriptive Properties	Value	Comments
Crystallite height Lc	>100 nm	
DBP absorption	52 g/100g	(Dibutylphthalate)

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