

## TIMCAL TIMREX® T75 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-T75-Primary-Synthetic-Graphite.php](http://www.lookpolymers.com/polymer_TIMCAL-TIMREX-T75-Primary-Synthetic-Graphite.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.210 g/cc	0.00759 lb/in <sup>3</sup>	Scott
Particle Size	43 µm	43 µm	springback 20.5%, pressure at 0.0477t/gg
	46 - 66 µm	46 - 66 µm	d90, Guaranteed
	57.5 µm	57.5 µm	d90, Typical
	70 µm	70 µm	at a density of 2.20 g/cm <sup>3</sup>
	75 µm	75 µm	springback 23%, pressure at 0.0477t/gg
	145 µm	145 µm	springback 24%, pressure at 0.0477t/gg
	625 µm	625 µm	at a density of 2.10 g/cm <sup>3</sup>
	1500 µm	1500 µm	at a density of 2.02 g/cm <sup>3</sup>
Specific Surface Area	9.8 m <sup>2</sup> /g	9.8 m <sup>2</sup> /g	BET
Deformation	1.1 %	1.1 %	elastic
	2.6 %	2.6 %	plastic
	3.7 %	3.7 %	plastic + elastic
Ash	0.070 %	0.070 %	Typical
	<= 0.10 %	<= 0.10 %	Guaranteed

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.35 @Temperature 850 °C, Time 10800 sec	0.35 @Temperature 1560 °F, Time 3.00 hour	Friction coefficient of sintered Cu-C - brake pads with 10% TIMREX® KS Graphite as a function of the particle size, Sinterdensity: 55% of the theoret. density

Thermal Properties	Metric	English	Comments
Thermal Conductivity	130 W/m-K	902 BTU-in/hr-ft <sup>2</sup> -°F	powders pressed to density of 2.2 g/cm <sup>3</sup>

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

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

Descriptive Properties	Value	Comments
Crystallite Height, Lc	>100 nm	
DBP absorption	103 g/100 g	(Dibutylphthalate)

## Contact Songhan Plastic Technology Co.,Ltd.

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