

TIMCAL TIMREX® T800 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. Advantages and applications: Suitable especially for organic bonded clutch facings (paper, fiber) and organic brake linings (semimetallic, non-metallic, low-metallic). Good lubrication properties Reduction of the friction level and smoothing of the friction coefficient Good thermal conductivity Reduction of hot spots and difference thickness vibration (DTV) by spring back and good thermal conductivity High effectiveness of wear-reduction at relatively low graphite concentrations Good damping behaviour due to internal lubricity and micropores - noise reduction Good wettability with organic binders and high adhesion strength between binder and graphite particle Information provided by TIMCAL

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMCAL-TIMREX-T800-Primary-Synthetic-Graphite.php

Physical Properties	Metric	English	Comments
Bulk Density	0.640 g/cc	0.0231 lb/in ³	Tap
Particle Size	70 µm	70 µm	at a density of 2.20 g/cc
	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	0.080 %	0.080 %	Typical

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.30	0.30	80% graphite content
	0.39	0.39	40% graphite content
	0.43	0.43	20% graphite content
	0.44	0.44	10% graphite content
	0.65 @Temperature 850 °C, Time 10800 sec	0.65 @Temperature 1560 °F, Time 3.00 hour	Friction coefficient of sintered Cu-C - brake pads with 10% TIMREX® T Graphite as a function of the particle size, Sinterdensity: 55% of the theoret. density

Abrasion Mechanical Properties	0.012 Metric	0.012 English	10% graphite content Comments
	0.012	0.012	40% graphite content
	0.013	0.013	20% graphite content
	0.016	0.016	80% graphite content

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

Processing Properties	Metric	English	Comments
Moisture Content	0.050 %	0.050 %	Typical

Descriptive Properties	Value	Comments
Crystallite Height, Lc	>100 nm	
DBP absorption	33 g/100g	(Dibutylphthalate)

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