

TIMCAL TIMREX® KS500 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 sintered metallic clutch facings and brake pads. Good lubrication properties Good transfer film formation Smoothing of the friction coefficient at the required level Good thermal conductivity Reduction of hot spots and DTV Good mixability with metal powders Sufficient mechanical strength of sintered parts even at medium density - no lamination Information provided by TIMCAL

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMCAL-TIMREX-KS500-Primary-Synthetic-Graphite.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	Tap
Particle Size	550 µm	550 µm	at a density of 2.16 g/cc
	1000 µm	1000 µm	at a density of 2.12 g/cc
Deformation	1.4 %	1.4 %	plastic
	1.4 %	1.4 %	elastic
	2.8 %	2.8 %	plastic + elastic
Ash	0.060 %	0.060 %	Typical

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

Processing Properties	Metric	English	Comments
Moisture Content	0.040 %	0.040 %	Typical

Descriptive Properties	Value	Comments
Crystallite height Lc	>100 nm	
DBP absorption	25 g/100g	(Dibutylphthalate)

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