

3M Advanced Materials Division

3M™ Boron Nitride Cooling Filler Platelets 001

Introduction

- Submicron Platelets

Typical Applications (non-limiting):

- Used with for thin films <25 µm and fibers
- Ideal for fine channels and windings

Compatible Matrix Materials (non-limiting):

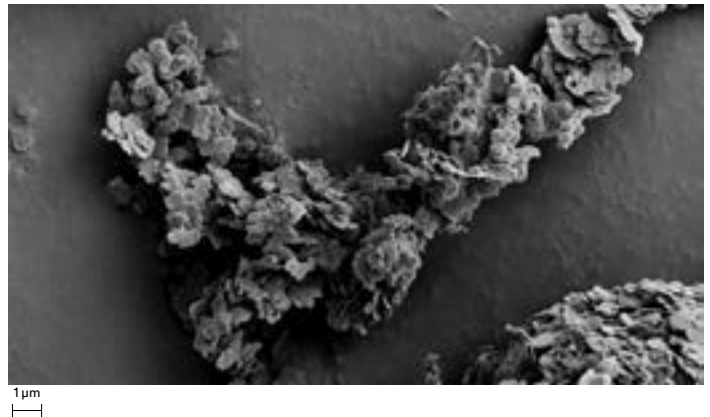
- Thermoplastics

Typical Physical Properties

(Not for specification purposes)

O	≤1.2%
C	≤0.06%
B ₂ O ₃	≤0.2%
BN	≥98.0%

BN content is calculated as (100% minus B₂O₃, O, C, Si, Al, Fe, Ca, without loss on drying)



Characteristics

(Not for specification purposes)

3M Boron Nitride Cooling Filler Platelets 001 7010240703	Minimum	Maximum
Specific Surface Area (m ² /g)	n.a.	30
(Untapped) bulk density (Scott) (g/cm ³)	n.a.	0.14

Bulk density determined according to ISO 23145-2 (DIN density)
For calculation purpose: Density of bulk hBN 2.25 g/cm³

Typical Sample

(Not for specification purposes)

PSD data can only be determined by means of SEM pictures and is therefore not specified (specific batch can vary)

- typical value d50 = 0.5 µm
- typical value d90 = 0.8 µm

Refer to the [3M Boron Nitride Cooling Filler Safety Data Sheet](#) for safety information.

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Issued: 09/23 17630HB