

3M Advanced Materials Division

3M™ Boron Nitride Cooling Filler Platelets 003E

Introduction

- Economic platelets with mean size 3 µm
- Can include soft agglomerates up to 300 µm

Typical Applications (non-limiting):

- All-purposes grade
- For injection molded parts

Compatible Matrix Materials (non-limiting):

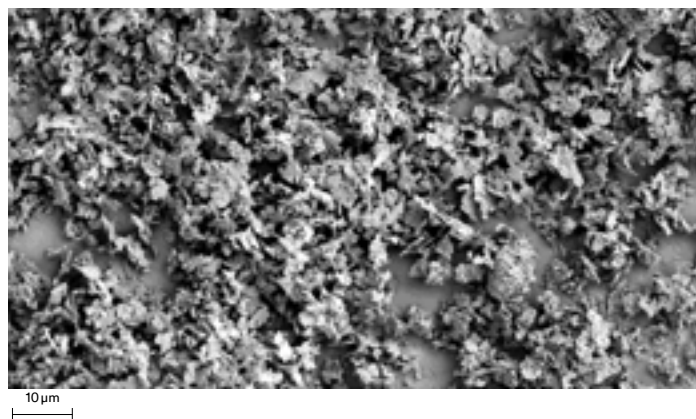
- Thermoplastics

Typical Physical Properties

(Not for specification purposes)

O	≤1.1%
C	≤0.06%
B ₂ O ₃	<0.1%
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)

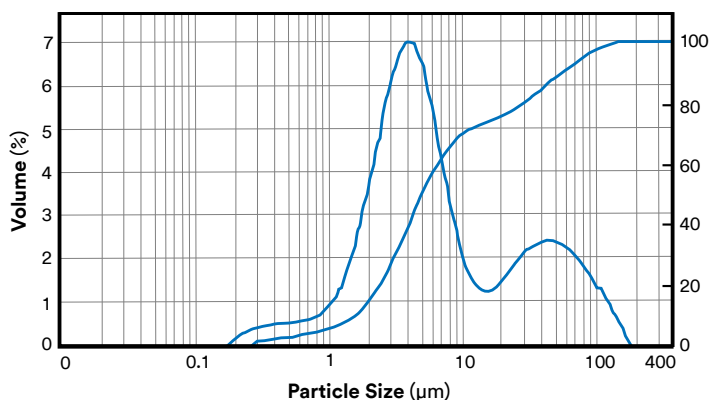
3M Boron Nitride Cooling Filler Platelets 003E 7010241405	Minimum	Maximum
Particle Size Distribution d(0.1) (µm)	0.5	2.5
Particle Size Distribution d(0.5) (µm)	1.3	8.8
(Untapped) bulk density (DIN) (g/cm ³)	n.a.	0.3
Specific Surface Area (m ² /g)	10	15

Bulk density determined according to ISO 23145-2 (DIN density)

Particle size distribution measured by laser light scattering (Mastersizer 2000, ethanol, 30s internal Ultrasonic)

For calculation purpose: Density of bulk hBN 2.25 g/cm³

Particle Size Distribution



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

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