

3M Advanced Materials Division

3M[™] Boron Nitride Cooling Filler Flakes 200-15

Introduction

 Flakes with mean flakes size 130 µm made of 15 µm primary platelets

Typical Applications (non-limiting):

- For potting resin parts with high through-plane thermal conductivity
- Boost thermal conductivity of compounds as secondary filler
- Better for lower viscosities

Compatible Matrix Materials (non-limiting):

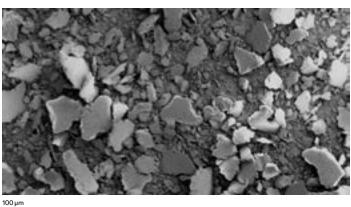
- Thermosets (preferentially Epoxy, Silicone)
- Elastomers (preferentially Epoxy, Silicone)

Typical Physical Properties

(Not for specification purposes)

0	<0.7%
С	<0.2%
B ₂ O ₃	<0.1%
BN	>98.5%

BN content is calculated as (100% minus $B_2O_3,$ O, C, Si, Al, Fe, Ca, without loss on drying)



100 µr |----|

Characteristics

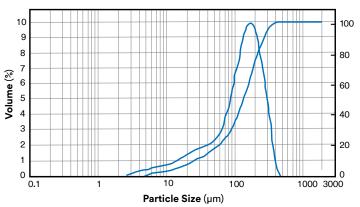
(Not for specification purposes)

3M [™] Boron Nitride Cooling Filler Flakes 200-15 7010286423	Minimum	Maximum
Particle Size Distribution d(0.1) (µm)	5	55
Particle Size Distribution d(0.5) (µm)	65	210
Particle Size Distribution d(0.9) (µm)	n.a.	450
(Untapped) bulk density (DIN) (g/cm³)	0.5	0.75
Specific Surface Area (m²/g)	1	3

Bulk density determined according to ISO 23145-2 (DIN density) Particle size distribution measured by laser light scattering (Mastersizer 2000, dry, 0.1 bar)

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

Particle Size Distribution



Refer to the <u>3M Boron Nitride Cooling Filler Safety Data Sheet</u> for safety information.

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