






HeBoFill®

Boron Nitride Fillers for Polymers

HeBoFill® Grade	450	501	511	541
agglomerate size D50 [µm]	30	--	10	--
particle size D50 [µm]	3 - 5	45	0.4	7 - 15
max. oxygen [%]	0.5	0.1	1.2	0.3
max. boron oxide [%]	0.2	0.05	0.1	0.1
max. carbon [%]	0.1	0.03	0.1	0.03
specific surface area [m ² /g]	6 - 8	0.6	14	3 - 5
bulk density (not compacted) [g/cm ³]	0.4	0.64	0.5	0.35
typical areas of application	Grade 450 consists of agglomerates of well crystalline primary particles. Hence, it is suitable very well for the application in thermosetting resins, in particular at high filling degrees and for good flowability during casting.	Grade 501 is a large single-crystal powder in the typical hexagonal platelet structure and therefore gives it a high thermal conductivity within the particle. It is best suited for use in applications where heat dissipation from a localized source to a large surface is desired.	Grade 511 is a fine hexagonal crystalline powder designed to offer an economical way to make an ideal substitute for aluminum nitride, alumina, and fused silica in applications where improved heat transfer properties are needed.	Grade 541 is a highly crystalline, high-purity single crystal grade with low surface area. The narrow particle size distribution makes this grade excellent for thin film or sheet applications.
heat conductive filler				
tribology (solid lubricant)				
For specific applications please ask for our data sheets				

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