www.ceramicparts.cn Advanced Technical Ceramic Solutions

DuraShock

Lightweight Ceramic - Ceramic Composites

Tough and hard ceramic composites for application where moderate mechanical shocks are present

- Boron Carbide based ceramic composite high hardness and improved toughness for applications where a high hardness and impact resistance is required
- Improved impact behaviour
- Lightweight for applications where Silicon Carbide is too heavy
- Consolidation by pressureless sintering economical process with ability to form complex shapes
- Further densification possible without changing the material characteristics

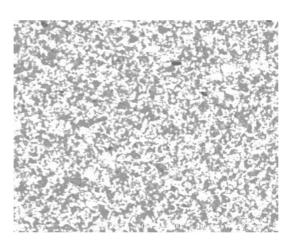
DuraShock

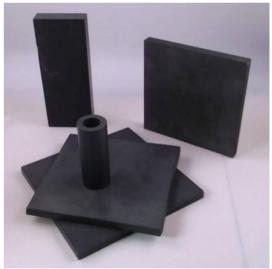
Density = 2.75 g/cm^3

Hardness HV_{0.5}=28 GPa

Toughness K_{Ic}= 4 MPa/m²

 ${}^{\star}K_{Ic}$ toughness as measured by the Indentation method





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