

SILICON NITRIDE

ROHS & REACH COMPLIANT

Physical properties

DENSITY	3,20 g/cm ³
COMPOSITION	Si ₃ N ₄
COLOUR	black

Thermal properties

EXPANSION	2,7 x 10 ⁻⁶ /°C
CONDUCTIVITY	90 W/m.K
SHOCK RESISTANCE	800°C
MAX WORKING TEMPERATURE	800°C

Mechanical properties

HARDNESS (DURETÉ)	1500 Vickers
POISSON'S RATIO	0.29
YOUNG'S MODULUS	310 GPa
COMPRESSIVE STRENGTH	4000 MPa
BENDING STRENGTH	1000 MPa

Chemical properties

ACID RESISTANCE	excellent
ALKALI RESISTANCE	excellent
WATER ABSORPTION	0