# SIKA® Densitec X-FORM Product information



Silicon carbide for forming of complex shapes (plastic forming eq. extrusion, 3D printing). Mixed with our own quality assured B₄C and Carbon in optimal conditions for solid-state (SSiC) sintered technical ceramics.

Densitec X-Form powder is based on our standard black Sintex 13. The premix is doped with sintering additives, and is ready to be formed into a green body.

Packaging 15 kg plastic pails

## Composition

Sintering additives		Binder content (total organic)	Moisture content	SiC type
Carbon	Boron	%	%	balance
Carbon black	Boron carbide	approx. 1	approx. 0.7	Sintex 13

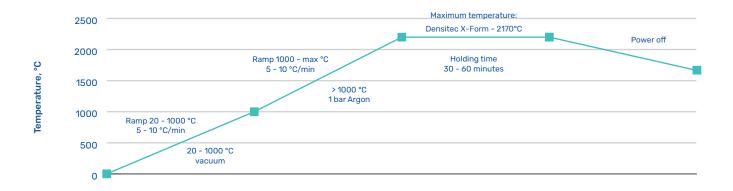
#### Typical physical properties

	Pow	der	Extruded green body		
Bulk density		Hall flow-meter	Green density	Drying over night 55°C	
	g/cm³		g/cm³		
ı	0.85	90	2.0	1.5 MPa	

# Typical properties of sintered parts

Density	Microhardness HV 1000	Indentation fracture toughness, $K_{\rm IC}$	Linear shrinkage	Bending strength
g/cm³	GPa	MPa/m	%	4 point MPa
3.12	24	3.8	approx. ~ 17	400

### **Typical Sintering Cycles**



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