

Haiflon® PTFE Compound SGC-30BR10CF (TYPE PAN)

60% VIRGIN PTFE

30%±1% IRREGULAR BRONZE POWDER ANTI-OXIDANT

10%±1% CARBON FIBER (TYPE PAN)

Haiflon® PTFE Compound SGC-30BR10CF is a bronze powder and carbon fiber reinforced PTFE compound consisting of 60% virgin PTFE, 30%±1% irregular bronze powder anti-oxidant, and 10%±1% PAN-based carbon fiber. It offers excellent thermal conductivity, good wear resistance, and low deformation under load compared with unfilled PTFE, while maintaining chemical resistance and wide service temperature range. This material is suitable for bearings, bushings, seal rings, and valve parts where high durability, low deformation under load and good conductivity are required.

Composition By Weight % & Filler Description

Property	Test Method	Unit	Value
Specific Gravity	ASTM D-4894	g/cm ³	2.65±0.05
Tensile strength*	ASTM D-4894	MPa	Min 12
Elongation at break*	ASTM D-4894	%	Min 120
Bulk Density	ASTM D-4894	g/L	900±50
Hardness	Shore D	—	56–60
Diametric Shrinkage	Internal	%	2.0±0.5
Flow	Internal	Sec/120g	≤5
Average Particle Size	ASTM D-4894	μm	550±100
Volume Resistivity	ASTM D257	Ω·cm	~10 ⁴

*Cross direction

Recommended Processing Conditions

Recommended Moulding Pressure: 500-600kg/cm²

Max Sintering Temperature: 370-375°C

Safety toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed.

Packing,Storage &Transportation

- Packed with sealed PVC bag,load in waterproof paper barrel.The net weight is 25±0.1kg per barrel.
- Not classified as hazardous for transport.Avoid shaking and heating during transportation.
- It should be stocked in clean,cool and dry warehouse,prevent from agglomeration and contamination.