Haiflon® PTFE Compound SGC-40BR

60% VIRGIN PTFE
40%±1% IRREGULAR BRONZE POWDER ANTI-OXIDANT

Haiflon® PTFE Compound SGC-40BR is a bronze powder filled PTFE compound consisting of 60% virgin PTFE and 40%±1% irregular bronze powder anti-oxidant. It offers excellent thermal conductivity, high load bearing capacity, and good creep resistance compared with unfilled PTFE, while maintaining low friction properties and wide service temperature range. This material is suitable for heavy duty bearings, bushings, seal rings, and piston rings where high thermal conductivity and durability under load are required.

Composition By Weight % & Filler Description

Property	Test Method	Unit	Value
Specific Gravity	ASTM D-4894	g/cm³	3.10±0.05
Tensile strength*	ASTM D-4894	MPa	Min 18
Elongation at break*	ASTM D-4894	%	Min 210
Bulk Density	ASTM D-4894	g/L	1000±100
Hardness	Shore D	—	63–68
Diametric Shrinkage	Internal	%	2.0±0.5
Flow	Internal	Sec/120g	≤5
Average Particle Size	ASTM D-4894	μm	550±100

*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.