

Haiflon® PTFE Compound SGC-23CAR2GR

75% VIRGIN PTFE

23%±1% CARBON COKE

2%±0.5% GRAPHITE POWDER

Haiflon® PTFE Compound SGC-23CAR2GR is a carbon coke and graphite powder filled PTFE compound consisting of 75% virgin PTFE, 23%±1% carbon coke, and 2%±0.5% graphite powder. It offers improved thermal conductivity, excellent self lubrication, and superior wear resistance in dry running conditions compared with unfilled PTFE, while maintaining excellent chemical resistance and wide service temperature range. This material is suitable for bearings, piston rings, seal rings, and sliding components where low friction and durability under load are required.

Composition By Weight % & Filler Description

Property	Test Method	Unit	Value
Specific Gravity	ASTM D-4894	g/cm ³	2.08±0.05
Tensile strength*	ASTM D-4894	MPa	Min 10
Elongation at break*	ASTM D-4894	%	Min 40
Bulk Density	ASTM D-4894	g/L	700±50
Hardness	Shore D	—	56–61
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: 400-500kg/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.