Haiflon® PTFE Compound SGC-10CF (TYPE PAN)

90% VIRGIN PTFE
10%±1% CARBON FIBER (TYPE PAN)

Haiflon® PTFE Compound SGC-10CF (TYPE PAN) is a carbon fiber reinforced PTFE compound consisting of 90% virgin PTFE and 10%±1% PAN-based carbon fiber. It offers significantly improved wear resistance, mechanical strength, thermal conductivity, and dimensional stability under load compared with unfilled PTFE, while maintaining excellent chemical resistance, low friction properties, and wide service temperature range. This material is suitable for demanding applications such as bearings, bushings, seal rings, sliding components, 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/cm³	2.10±0.05
Tensile strength*	ASTM D-4894	MPa	Min 16
Elongation at break*	ASTM D-4894	%	Min 130
Bulk Density	ASTM D-4894	g/L	780±50
Hardness	Shore D	—	60–65
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	~10⁴

*Cross direction

Recommended Processing Conditions

Recommended Moulding Pressure: 350-400kg/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.