

Haiflon® PTFE Compound SGC-25GR

75% VIRGIN PTFE

25%±1% GRAPHITE POWDER

Haiflon® PTFE Compound SGC-25GR is a graphite powder filled PTFE compound consisting of 75% virgin PTFE and 25%±1% graphite powder. It offers excellent self lubrication, very low friction, and improved wear resistance, particularly in dry running conditions, 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 superior wear resistance are required.

Composition By Weight % & Filler Description

Property	Test Method	Unit	Value
Specific Gravity	ASTM D-4894	g/cm ³	2.15±0.05
Tensile strength*	ASTM D-4894	MPa	Min 10
Elongation at break*	ASTM D-4894	%	Min 20
Bulk Density	ASTM D-4894	g/L	750±50
Hardness	Shore D	—	58–62
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.