

Haiflon® PTFE Compound SGC-5GL5M

90% VIRGIN PTFE

5%±1% GLASS FIBER

5%±0.5% MOLYBDENUM DISULFIDE

Haiflon® PTFE Compound SGC-5GL5M is a glass fiber and molybdenum disulfide filled PTFE compound consisting of 90% virgin PTFE, 5%±1% glass fiber, and 5%±0.5% molybdenum disulfide. It offers significantly improved wear resistance, low friction, and reduced cold flow under load compared with unfilled PTFE, while maintaining excellent chemical resistance and wide service temperature range. This material is suitable for bearings, bushings, seal rings, gaskets, and valve seats where high durability and low deformation under load are required.

Composition By Weight % & Filler Description

Property	Test Method	Unit	Value
Specific Gravity	ASTM D-4894	g/cm ³	2.22±0.02
Tensile strength*	ASTM D-4894	MPa	Min 20
Elongation at break*	ASTM D-4894	%	Min 240
Bulk Density	ASTM D-4894	g/L	780-870
Hardness	Shore D	—	54-58
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: 300-350kg/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.