

## Haiflon® PTFE Compound SGC-40BR5CAR

### 55% VIRGIN PTFE

### 40%±1% IRREGULAR BRONZE POWDER ANTI-OXIDANT

### 5%±0.5% CARBON COKE

Haiflon® PTFE Compound SGC-40BR5CAR is a bronze powder and carbon coke filled PTFE compound consisting of 55% virgin PTFE, 40%±1% irregular bronze powder anti-oxidant, and 5%±0.5% carbon coke. It offers excellent thermal conductivity, improved wear resistance under high load, 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/cm <sup>3</sup> | 3.00±0.1 |
| Tensile strength*     | ASTM D-4894 | MPa               | Min 10   |
| Elongation at break*  | ASTM D-4894 | %                 | Min 100  |
| Bulk Density          | ASTM D-4894 | g/L               | 950±100  |
| Hardness              | Shore D     | —                 | 58–65    |
| 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/cm<sup>2</sup>

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.