

Compound

GS OHP-100B

Description

GS OHP-100B is an off-grade of black high-density polyethylene compound (equivalent to off-grade CRP100B) with easy processing and installation, good ESCR, outstanding tensile strength and hydrostatic strength. GS OHP-100B can be used for the production of temperature-pressure resistant pipes for drinking water, drainage and irrigation.

General

Appearance: Black Granule

Application: Industrial, Agricultural and Pressure pipes, Drinking water pipes

Processing Method: Extrusion

Packaging: 25 Kg Bag

Properties

Property	Test Method	Unit	Result
Density	ISO 1183	g/cm ³	0.950±0.005
Melt Flow Index (190°C/5kg)	ISO 1133	g/10 min	0.25±0.04
Tensile Strength at Break	ISO 527	MPa	23
Elongation at Break	ISO 527	%	750
Hardness	ISO 868	Shore D	55
Carbon Black Content	ISO 6964	%	2.2
Hydrostatic Strength (@80°C)	ISO 1167	h	>165
Oxidation Induction Time	ISO 11357	min	>30
Vicat Softening Temperature	ISO 306	°C	128
ESCR (50°C, F ₅₀)	ISO 22088	h	>1000

Extrusion

- Cylinder Temperatures: 150-240 °C
- Head & Die Temperatures: 220-240 °C

Notes

- Test results have been obtained with laboratory equipment. Change the test devise may give different results outside of the standard.
- The compound is suitable to run on different machines; however, some adjustments may be required on an individual machine. The customers are advised to check the product quality before commercial use.
- The compound should be stored in the original container securely under cool and dry conditions away from direct sunlight, heat and contamination.
- Shelf life at proper storage is about 36 months from the production date, but it is recommended to consume the compound within 18 months.

