



High Density Polyethylene Compound PE100-COM

Description

PE100-COM is a modified grade of black high-density polyethylene compound (equivalent to PE100) with easy processing and installation, good ESCR, high impact strength and outstanding hydrostatic strength. PE100-COM can be used to produce temperature-pressure resistant pipes for drinking water, drainage and irrigation.

General

Appearance: High Purity Black Granule Application: Industrial, Agricultural and Pressure pipes, Gas pipes, drinking water pipes Processing Method: Extrusion Packaging: 25 Kg Sack or 1 Ton Jumbo Bags.

Properties

Property	Test Method	Unit	Result
Density	ISO1183	g/cm ³	0.95
Melt Flow Index (190 °C/5kg)	ISO 1133	g/10 min	0.35
Tensile strength at break	ISO 527	MPa	30
Elongation at break	ISO 527	%	700
Carbon Black Content	ASTM D1603	%	2.5
Izod Impact Strength (Notched, Method A, 23°C)	ISO 180	kJ/m ²	28
Hydrostatic Strength (80°C)	ISO 1167	h	5000
Oxidation Induction Time (200 °C)	ISO 11357	min	>45
Vicat Softening Temperature	ISO 306	°C	125



Extrusion

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	head	die
Temperature (°C)	130	150	170	180	190	200	200

Notes

- Test results have been obtained with laboratory equipment. Change the test devise may give different results outside of the standard.
- 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.