

Technical Data Sheet

CFB-310 Compound



Description

CFB-310 is a carbonate-filled HDPE compound reinforced with ~10% ultrafine treated- CaCO_3 for blow molding applications. CFB-310 shows good impact resistance, stiffness–toughness balance, stress-crack resistance and dimensional stability, making it ideal for the production of bottles, containers, and technical hollow parts.

General

Form: Natural Pellets

Process: Extrusion blow molding

Application: Small and large containers and bottles

Additives: AO, PPA, Filler

Packaging: 25 kg sack / 850 kg big bag

Physical Properties

Property	Test Method	Unit	Result
Density	ISO 1183	g/cm^3	0.96 ± 0.01
Melt Flow Rate (190°C/5kg)	ISO 1133	g/10 min	1 ± 0.2
Filler Content	ISO 3451	%	<10
Tensile Strength at Yield	ISO 527	MPa	24
Elongation at Break	ISO 527	%	600
Hardness	ISO 868	Shore D	60
Vicat Softening Temperature	ISO 306	°C	128
Oxidation Induction Time	ISO 11357	min	30
ESCR (50°C, F50)	ISO 22088	h	>1000

Processing Guidelines

The compound provides excellent surface finish and output rates over a broad range of conditions in PE screw extruder; however, the optimum results are recommended as follows:

- Barrel Temperatures: 150-230 °C
- Die Head Temperatures: 220-230 °C

Notes

- The typical properties have been determined using laboratory equipment. Users are advised to verify results through their own standard testing methods.
- The compound is suitable for use on various machines; however, minor adjustments may be required for individual equipment. Customers are advised to verify product quality prior to commercial use.
- The compound should be stored in its original packaging under cool and dry conditions, protected from direct sunlight, heat and contamination. The recommended storage period at the customer's site should not exceed two years.

