Technical Data Sheet

CFP-180 Compound

Description

CFP-180 is a cost-optimized carbonate-filled polyethylene compound reinforced with 10 to 80% ultrafine treated-$CaCO_3$ powder. CFP-180 is engineered to improve stiffness, dimensional stability, printability and surface finish while offering excellent processing performance in extrusion and injection molding applications.

General

Form: Natural/White Pellets

Process: Extrusion, Injection, Blow molding

Application: Packaging films and sheets, Containers and bottles, Household articles, Cable and wire

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	0.96-1.6
Melt Flow Rate (190°C/5kg)	ISO 1133	g/10 min	0.5-2
Filler Content	ISO 3451	%	10-80
Tensile Strength	ISO 527	MPa	15-20
Elongation at Break	ISO 527	%	300-500
Hardness	ISO 868	Shore D	55-65
Vicat Softening Temperature	ISO 306	ºC	126
Oxidation Induction Time	ISO 11357	min	20
Moisture Content	ISO 15512	%	<0.25

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: 150-220 °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.