

Technical Data Sheet

WTP-270 Masterbatch



Description

WTP-270 is a white polyethylene-base masterbatch containing 20 to 70% high-quality titanium dioxide (TiO_2) pigment, designed to provide superior whiteness, opacity, and coverage in plastic applications. WTP-270 offers high refractive index, excellent dispersion, compatibility, and outstanding UV & heat stability.

General

Form: White Pellets

Process: Extrusion, Injection, Blow molding

Application: General Purpose, Packaging films, Shopping bags, Containers, Household items, Automotive parts

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	1-1.7
Melt Flow Rate (190°C/2.16kg)	ISO 1133	g/10 min	1-3
Filler Content	ISO 3451	%	20-70
Tensile Strength	ISO 527	MPa	16-20
Elongation at Break	ISO 527	%	300-500
Hardness	ISO 868	Shore D	55-60
Vicat Softening Temperature	ISO 306	°C	128
Oxidation Induction Time	ISO 11357	min	30
Moisture Content	ISO 15512	%	<0.25

Processing Guidelines

The masterbatch 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 masterbatch 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 masterbatch 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.

