

LLDPE MO7004-C80N5

Polyethylene Filler Masterbatch

Product Description

An excellent dispersed polyethylene filler containing a special type of calcium carbonate less sensitive to moisture. It has an entirely active role such as whitening, processing assistance, reducing cycle time and improving physical properties.

Safety

LLDPE MO7004-C80 is classified as no-dangerous material.

We advise you to follow our safety guidelines and recommendations in our Material Safety Data Sheet.

Typical Applications

LLDPE MO7004-C80 is designed to be added to polyethylene film and polypropylene raffia, and polypropylene sheet.

Specifications

Property	Unit	Test method	Typical value
Melt flow rate (5.0 kg at 190 °C)	g/10min	ASTM D1238	0.41
Density at 23 °C	g/cm ³	ASTM D792	1.97
Moisture content	%	ASTM D6980	≤ 0.05
Calcium carbonate, ash content	%	ASTM D5630	80
Polymer base LLDPE	-----	-----	LLDPE

Extrusion Parameters

Due to the fine particle size of calcium carbonate and its hydrophilic behavior, it has a great tendency to adsorb moisture. Even the low moisture content (0.05%) gives an end product with a bad surface. However the type of the Calcium Carbonate present in LLDPE MO7004-C80 is less sensitive to moisture when exposure to storage for a long time or under unfavorable conditions which increase moisture, we recommend drying before extrusion.

For normal extrusion conditions and applications we suggest preheating and drying with maximum preheating temperature of 90 °C.

Processing Guidelines

Average extrusion temperature range may be kept at 160 – 250 °C. Lower processing temperatures are possible with this material and will result in better long term heat aging

Storage and Shelf Life

LLDPE MO7004-C80 should be stored in such a way that prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in color changes, bad smell and inadequate product performance.

The shelf life at proper storage conditions is two years from the date of production.