Marlex® BM593 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

Description

HDPE BM593 is a high density polyethylene (HDPE) with outstanding compromise between stiffness and Environmental Stress Crack Resistance (ESCR). It has been specifically designed for the manufacture of blow moulded packaging for household, industrial, cosmetics liquids with an optimized weight.

HDPE BM593 is a pellet grade and contains antioxidants.

Compliance with regulations

HDPE BM 593 is formulated to comply with most requirements of the food packaging regulations of the European Union and of the Food and Drug Administration (FDA) in the USA.

A Product Stewardship certificate giving the conformity to various regulations or statements on absence of certain chemicals is available on request.

It is recommended to contact your local sales representative to obtain specific information and individual certificates regarding compliance to regulations.

Nominal Physical Properties	SI	Method
Density	0.959 g/cm3	ISO 1183
Melt Flow Rate (190°C/2.16 kg)	0.27 g/10 min	ISO 1133/D
Melt Flow Rate (190°C/21.6 kg)	26 g/10 min	ISO 1133/G
ESCR Antarox 100%	F50 > 500 h	ASTM D 1693B
Notched Charpy Impact Resistance 23°C	16 kJ/m²	ISO 179-1
Processing Properties	**Original Value**	
Processing Temperature	180 - 230 °C	

Handling and storage

HDPE BM 593 should be stored at ambient temperature and at atmospheric pressure in its original packaging (plastic or cardboard boxes) or in silo made of appropriate material (aluminium, stainless steel,…).

The product should be stored in dry, well-ventilated areas, and it is recommended to avoid prolonged storage under extreme temperatures, direct sunlight or other sources of radiation.

It is advisable to convert the product within 6 months after delivery, provided appropriate storage conditions are used.

Please refer to the Safety Data Sheet for further information.