

# HDPE

## Product description

Product	<b>High Density Polyethylene</b>
Properties	injection molding grade
Applications	Intended for further processing by injection moulding into articles for household and do-mestic use with increased cracking resistance such as bottle caps, box covers, caps, boxes, containers, trays, house-wares, injection syringe parts and needles, toys.

## Physico-chemical properties

Characteristic		Unit	Value
Density	at 23° C	kg/m <sup>3</sup>	958 - 965
	at 20° C		960 - 966
Melt flow index at 190° C and load of 2.16 kg		g/10min	min 6-9
Melt flow index spread within a batch		%	max ± 15
Number of inclusions		pieces	max 10
Melt flow ratio( MFI 21.6/MFI 2.16)		-	20 – 35
Tensile yield strength		MPa	28
Rupture strength		MPa	min 17
Elongation at break		%	-
Cracking resistance		hours	-
Weight content of pellets less than 2 mm and more than 5-8 mm in size		%	max 1

## Storage and packing

Storage conditions	shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30° C, relative humidity max 80%
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Packing	Product is packed in polyethylene bags (one bag net weight $25.00 \pm 0.25\text{kg}$ ) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.
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