

# Technical Data Sheet

## Product Description

### FM HDPE EX5

**EX5 (HM-9450)** is a blow-moulding grade high density polyethylene with 1-Butene. Good stiffness, tenacity and high molar mass make it especially suitable for usage in film extrusion, counter and carrier bags and wrapping films.

- This grade is suitable for food contact conform EEC regulation.

<b>Characteristic</b>	<b>Typical value</b>	<b>Unit</b>	<b>Test method</b>
Mass density (23°C)	0.949	gr/cm <sup>3</sup>	ISO 1183
Melt flow rate (190°C/5.0kg)	0.28	gr/10min	ISO 1133
Melt flow rate (190°C/21.6kg)	8	gr/10min	ISO 1133
Stress at yield	24	Mpa	ISO 527
Stress at break	35	Mpa	ISO 527
Softening temperature	75	°C	ISO 306
Brittle temperature	<-80	°C	ASTM D746-72
Shore D hardness	60	-	ISO 868
Max. tensile strength MD/TD	45/40	Mpa	ISO 527
Tear strength MD/TD	200/450	m N	ISO 6383-2
Max. elongation MD/TD	400/450	%	ISO 527
Dart drop impact	220	gr	ASTM D 1709
FRR(21.6/5)	29	-	-
FN	≤3/≤120	NOTE/μm	-

Notes: Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data is accumulated. - ISO test methods are the latest under the society's current procedures.

## *Handling, Health & Safety*

Ensure proper ventilation of the work environment to minimize health and safety hazards from fine particles. Ensure machinery and equipment is properly grounded to prevent sparks that can ignite dust. Molten polymers will cause thermal injuries to organic matter, please ensure safety glasses and appropriate safety apparel is worn.

## *Storage Conditions*

Polyethylene products (in pelletized or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet causes a change in the materials properties. The storage area should be dry and preferably not exceed 50 °C. Under cool, dry, dark conditions polyethylene resins are expected to maintain the original properties for at least 18 month. FM Plastics cannot be held responsible for diminishing qualities due to poor storage conditions, such as; color change, foul smell etc. Generally, it is considered best to process polyethylene resin within 6 months after delivery.

## *Packaging*

Polyethylene resins are supplied in pellet form packed in 25kg bags on 1.375 kg pallets.



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