

# Technical Data Sheet

## Product Description

### FM LLDPE U1

**LLDPE U1** is a linear low density polyethylene with 1-Butene as co-monomer. It has high stiffness making it suitable for usage in high stiffness blown films, blending and lamination.

<b>Characteristic</b>	<b>Typical value</b>	<b>Unit</b>	<b>Test method</b>
<i>Melt index (190°C/2.16kg)</i>	0.8-1.2	g/10min	ASTM D1238
<i>Density (23°C)</i>	0.920-0.924	g/ml	ASTM D1505
<i>F/E ratio</i>	<30	-	ASTM D1238
<i>Yellowness index</i>	0.5	-	ASTM D1925
<i>Ti content</i>	2	Ppm wt	MTM 15636
<i>Fish Eyes</i>	60	Gels/m <sup>2</sup>	MTM 17108
<i>Haze</i>	25	%	ASTM D1003
<i>Gloss 45°</i>	35	%O	MTM 1702
<i>Dart impact</i>	75	g	ASTM D1709/A
<i>Tensile modulus</i>			
>MD	150	2% sec	ASTM D882
>TD	180	Mpa	ASTM D882
<i>Tensile strength</i>			
>MD	49	Ultimate	ASTM D882
>TD	43	Mpa	ASTM D882
<i>Elongation</i>			
>MD	800	At break	ASTM D882
>TD	900	%	ASTM D882
<i>Elmendorf tear</i>			
>MD	120	g	ASTM D1922
>TD	400	g	ASTM D1922

Notes: Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data is accumulated.

## *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.



Bultweg 11  
8346 KA De Bult  
The Netherlands

Broekslagen 6  
8331 TJ Steenwijk  
The Netherlands

F: +31 521 52 20 84  
T: +31 521 52 00 41

[www.fmplastics.nl](http://www.fmplastics.nl)  
[info@fmplastics.nl](mailto:info@fmplastics.nl)