

# Technical Data Sheet

## Product Description

### FM HPP Z30S

FM HPP Z30S is a high melt flow homo-polymer polypropylene for CF, BCF and staple fibres at medium to high spinning speeds. It offers a high homogeneity, stable extrusion and excellent processing qualities ability on both short and long spinning lines. This grade allows a high stretch ratio and gives tough and resilient fibres. FM HPP Z30S is suitable for low denier staple fibres for non-woven fabrics, diapers, medical-sanitary applications and wipes. Another typical application is high tenacity continuous filament for straps for backpacks, handles for big and safety belts. Continuous filament with medium tenacity is used for upholstery, sportswear and heavy duty clothing. FM HPP Z30S is also suited for bulked continuous filament used in thermobonding and carpets.

- This grade is suitable for food contact conform EEC regulation

<b>Characteristic</b>	<b>Typical Value</b>	<b>Unit</b>	<b>Test Method</b>
<i>Mass density (23°C)</i>	0.9	g/cm <sup>3</sup>	ISO 1183
<i>MFR (230°C/2.16 kg)</i>	25	g/10min	ISO 1133
<i>Flexural Modulus</i>	1550	N/mm <sup>2</sup>	ISO 178
<i>Tensile Strength @ Yield</i>	35	N/mm <sup>2</sup>	ISO R 527
<i>Elongation @ Yield</i>	13%	%	ISO R 527
<i>IZOD impact str. (notched) @ 23°C</i>	3	KJ/m <sup>2</sup>	ISO 180
<i>Shore D hardness</i>	72	-	ISO 868
<i>H.D.T (0.46 MPa)</i>	118	°C	ISO 75B
<i>Vicat soft.temp. (A50(50°C/h 10N))</i>	155	°C	ISO 306
<i>Accelerated oven ageing in air (forced circulation) at 150°C</i>	360	Hour	ISO 4577

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. All specimens are prepared by injection-molding.

## *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*

Polypropylene 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 polyolefin 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 PP resin within 6 months after delivery.

## *Packing*

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



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