

Technical Data Sheet

Product Description

FM HPP 510L / C30S

HPP 510L is a polypropylene homo-polymer with good flow properties and is particularly suitable for the extrusion of film yarn, monofilament, cast film and sheet. It combines outstanding processing qualities with good mechanical properties. Film yarn made of HPP 510L is used for baler twines, packaging twines and ropes. It is also well suited for monofilament used for instance in brush and broom filling and technical applications. Other applications are monolayer or coextruded film for packaging, thin sheet for stationery folders, sheet for thermoforming and the extrusion of straws.

- This grade is suitable for food contact conform EEC regulation

Characteristic	Typical Value	Unit	Test Method
<i>Mass density (23°C)</i>	0.9	g/cm ³	ISO 1183
<i>MFR (230°C/2.16 kg)</i>	6	g/10min	ISO 1133
<i>Flexural Modulus</i>	1500	N/mm ²	ISO 178
<i>Tensile Strength @ Yield</i>	34	N/mm ²	ISO R 527
<i>Elongation @ Yield</i>	13%	%	ISO R 527
<i>IZOD impact str. (notched) @ 23°C</i>	4	KJ/m ²	ISO 180
<i>Shore D hardness</i>	71	-	ISO 868
<i>H.D.T (0.46 MPa)</i>	112	°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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