

# HP510L

## Homopolymer

**Description:**

HP510L is a polypropylene homopolymer with good flow properties and is particularly suitable for the extrusion of film yarn, monofilament, cast film and sheet. HP510L combines outstanding processability with good mechanical properties. Film yarn of HP510L is used for baler twines, packaging twines and ropes. HP510L is well suited for the production of monofilament used for instance in brush and broom filling and technical applications.

**Typical Applications**

- Baler twines, packaging twines and ropes
- Brush and broom filling and technical applications
- Coextruded film for packaging
- Thin sheet for stationery folders
- Sheet for thermoforming
- Straws
- Gunnies

**Features:** Good processability, Good mechanical properties, Homopolymer

**Suitable for:** Extrusion (Film yarn, monofilament), Sheets and Cast film applications

**Product Specification**

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16kg)	6.5	g/10 min	ASTM D1238
Density	0.9	g/cm <sup>3</sup>	ASTM D1505
Flexural Modulus	1500	MPa	ASTM D790
Tensile Strength at Yield	35	MPa	ASTM D638
Tensile Elongation at Yield	12	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	40	J/m	ASTM D256
Rockwell Hardness	100	R Scale	ASTM D785
Vicat softening point (10 N)	154	°C	ASTM D1525
H.D.T. (0.46 Mpa)	94	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	h	ASTM D3012

\* Typical values; not to be considered as product specification.