

# HP550J

## Homopolymer

**Description:**

HP550J is a homopolymer particularly suitable for the extrusion of sheet for thermoforming, film yarn and monofilament. This grade combines outstanding processability with good mechanical properties. HP550J is designed for the production of films that can be converted into stretched tapes for weaving applications. Textile film yarns with a denier count of not more than 1100 to 1200 and are used for the production of carpet backings, bags, industrial fabrics, mats and artificial grass. Film yarn with a denier count ranging from 3000 to 28000 is used for baler twines, packaging twines and ropes.

**Typical Applications**

- Film yarn, raffia, tapes, strapping
- Stiff sheet for high quality thermoformings such as vending cups, packaging for dairy products and trays for fruit, biscuits and chocolates
- Carpet backings, bags, industrial fabrics, mats and artificial grass
- Baler twines, packaging twines and ropes
- Brush and broom filling and technical applications
- Nets for various purposes

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

**Suitable for:** Extrusion (film yarn, monofilament, sheet) & thermoforming applications

**Product Specification**

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16kg)	3.2	g/10 min	ASTM D1238
Density	0.9	g/cm <sup>3</sup>	ASTM D1505
Flexural Modulus	1550	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	55	J/m	ASTM D256
Rockwell Hardness	102	R Scale	ASTM D785
Vicat softening point (10 N)	156	°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.