

Technical Datasheet HP550J

1) Product Description:

PP HP550J is a polypropylene 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 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. "HP550J" is suitable for food contact.

2) Applications:

Stiff sheet for high quality thermoformings such as vending, cups, packaging for dairy products and trays for fruit, biscuits and chocolates, Film yarn, raffia, tapes, strapping, 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

3) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Melt Flow Rate (230 °C, 2.16kg)	ASTM D1238	g/10min	3.2
Density	ASTM D1505	g/cm ³	0.9
Flexural Modulus	ASTM D790	MPa	1550
Tensile Strength at Yield	ASTM D638	MPa	35
Tensile Elongation at Yield	ASTM D638	%	12
Izod Impact Strength (notched) at 23 °C	ASTM D256	J/m	55
Rockwell Hardness	ASTM D785	R Scale	102
Vicat softening point (10N)	ASTM D1525	°C	156
H.D.T. (0.46 Mpa)	ASTM D648	°C	94
Accelerated oven ageing in air at 150 °C	ASTM D3012	hours	360

* Typical values not to be construed as specifications.