

HP502H

Homopolymer

Description:

HP502H is a polypropylene homopolymer particularly suitable for the production of sheet for thermoforming, film yarn and monofilament. HP502H combines excellent processability with high stiffness and is particularly suitable to produce film yarn, both with cast and tubular processes. Textile film yarns have a denier count of not more than 1100 to 1200 and are used for the production of bags, industrial fabrics and mats. Film yarn with a denier count ranging from 3000 to 28000 is used for baler twines, packaging twines and ropes. HP502H is also well suited for the production of monofilament used for brush and broom filling and technical applications.

Typical Applications

- Sheet for thermoforming (drinking beakers, packaging for dairy products, nursery flower pots and trays for fruit, biscuits and chocolates)
- Bags, industrial fabrics and mats
- Baler twines, packaging twines and ropes
- Brush and broom filling and technical applications
- Profiles and small diameter pipes such as refills for ball pens
- Strapping
- Blow molded small containers

Features: Excellent processability, High stiffness

Suitable for: Extrusion (Sheet, film yarn, monofilament), Thermoforming, Blow molding, Injection molding

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	1.8	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
Flexural Modulus	1650	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	60	J/m	ASTM D256
Rockwell Hardness	105	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.