

HP502N

Homopolymer

Description:

HP502N is a medium fluidity polypropylene homopolymer and is particularly suitable for the production of heavy denier staple fibre and continuous filament. HP502N exhibits good process stability and constant, high flow during extrusion. HP502N is developed for the extrusion of staple fibres for spinning wool system fibres for carpets, rugs and garments such as overalls and socks. HP502N is also suited for the production of continuous filament for ropes, belts and straps. Another typical application of HP502N is the extrusion of decorative ribbons.

Typical Applications

- Carpets, rugs and garments such as overalls and socks
- Continuous filament for ropes, belts and straps
- Decorative ribbons

Features: Good process stability, High flow during extrusion

Suitable for: Fiber Extrusion (Staple fiber, Continuous filament)

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	12	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
Flexural Modulus	1550	MPa	ASTM D790
Tensile Strength at Yield	34	MPa	ASTM D638
Tensile Elongation at Yield	12	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	30	J/m	ASTM D256
Rockwell Hardness	102	R Scale	ASTM D785
Vicat softening point (10 N)	154	°C	ASTM D1525
H.D.T. (0.46 MPa)	95	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	h	ASTM D3012
Gloss (60°)	95	----	ASTM D2457

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