

# HP422H

## Homopolymer

### Description:

HP422H is a modified homopolymer designed for the very high speed production of BOPP films, wherein an outstanding extrusion stability, thickness variation control, a very high drawability and readiness to a two way orientation would be achieved. The product contains a reinforced processing stabilization and features low water carry-over properties. HP422H does not contain any slip or antistatic agent and is Calcium Stearate free. The Product is particularly suitable for metalizing film. BOPP films produced with HP422H feature good mechanical properties, even at low temperatures, excellent barrier against moisture, odours, oils and oxygen and good transparency and gloss. Monolayer or coextruded films made of HP422H with a thickness ranging from 20 to 40  $\mu\text{m}$  are used for the packaging of foodstuffs, cosmetics and videocassettes.

### Typical Applications

- Food packaging film
- Packaging of cosmetics and videocassettes
- Barrier film

**Features:** High impact strength and puncture resistance, Excellent barrier against moisture, odours, oils and oxygen, Good transparency and gloss, Homopolymer

**Suitable for:** BOPP Film

### Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16kg)	2.1	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	60	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)	92	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	500	h	ASTM D3012
Haze (20 $\mu\text{m}$ )	0.5	%	ASTM D1003

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