RAYOMAND
Petroleum & Energy Industries

Polypropylene Technical Data Sheet

HP522H

Homopolymer

Description:

HP522H is a homopolymer for the production of biaxially oriented polypropylene films which is particularly suitable for metallization, both as plain film and in coextruded structures. HP522H has been designed to provide a very stable extrusion on stenter lines and to give excellent thickness control, increased drawability and readiness to a two way orientation. This grade contains a reinforced processing stabilization but does not contain any slip or antiblocking agents and is calcium stearate free. The product features low water carry-over properties and is therefore also suitable for tubular BOPP. BOPP films produced with HP522H feature good mechanical properties, even at low temperatures, excellent barrier against moisture, odours, oils, fats and oxygen and good optical properties. Monolayer or coextruded films made of HP522H with a thickness ranging from 20 to 40 µm are used for the packaging of foodstuffs, cosmetics and videocassettes.

Typical Applications

- Food packaging
- Packaging of cosmetics and videocassettes
- Lamination to other flexible films

Features: High impact strength and puncture resistance, Excellent barrier against moisture, odours, oils and oxygen, Good optical properties

Suitable for: BOPP Film

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	2	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	500	h	ASTM D3012
Haze (20µm)	0.6	%	ASTM D1003

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

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