RAYOMAND
Petroleum & Energy Industries

Polypropylene Technical Data Sheet

HP528H

Homopolymer

Description:

HP528H is a homopolymer designed for the manufacture of coextruded biaxially oriented polypropylene (BOPP) films. The product is used for the core of the coextruded film structure with a low seal temperature random copolymer (terpolymers) in the outside layers. HP528H has been designed to provide a very stable extrusion on stenter lines and to render excellent thickness control, increased drawability and readiness to a two way orientation. The product contains a reinforced processing stabilization and a package of slip and antistatic agents but does not contain antiblocking agents. BOPP films produced with HP528H feature good mechanical properties, high impact strength and puncture resistance, even at low temperatures. The films form an excellent barrier against moisture, odours, oils, fats and oxygen and feature high transparency, high gloss and good printability after corona treatment. HP528H is suitable for food contact.

Typical Applications

- Automatic packaging of bakery products, snacks and pasta
- Overwrapping of boxes and cigarette packets

Features: High impact strength and puncture resistance, Excellent barrier against moisture, odours, oils and oxidation, High transparency and gloss, Good printability

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

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

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