



# Polypropylene

## Aramco PP HP30EG

### Product Description

Aramco PP HP30EG is a homopolymer polypropylene resin and is typically used for the extrusion of biaxially oriented film. Films made from this resin typically exhibits excellent optical properties, excellent mechanical and moisture barrier properties. This product is easy to process and is typically suitable for high speed BOPP line.

### Typical Applications

Food packaging, printing lamination, adhesive tape, cigarette packaging, metallized film.

This product is not intended for use in medical and pharmaceutical applications.

Physical Properties		Unit	Test Method	Value <sup>(1)</sup>
Melt Flow Index (230°C/2.16kg)		g/10min	ASTM D1238	3.0
Density		g/cm <sup>3</sup>	ASTM D792 Method A	0.9
Film Properties <sup>(2)</sup>				
Tensile Strength at Break	MD	MPa	ASTM D882	100
	TD			215
Tensile Elongation at Break	MD	%	ASTM D882	85
	TD			15
1% Secant Modulus	MD	MPa	ASTM D882	2100
	TD			3850
Haze		%	ADTM D1003	0.1
Gloss 45 degree			ASTM D2457	155
Mechanical Properties <sup>(3)</sup>				
Tensile Strength at Yield		MPa	ASTM D638	32
Tensile Elongation at Yield		%	ASTM D638	9
Tensile Strength at Break		MPa	ASTM D638	19
Tensile Elongation at Break		%	ASTM D638	165
Flexural Modulus		MPa	ASTM D790	1265
Flexural Strength		MPa	ASTM D790	35
Izod Impact, Notched 23 °C		kJ/m <sup>2</sup>	ASTM D256	2.8
Hardness Rockwell			ASTM D785	98
Thermal Properties <sup>(3)</sup>				
Vicat Softening Temperature @10N		°C	ASTM D1525	153

(1) Typical values only, not to be construed as specification limits

(2) Cast film fabrication conditions: Monolayer film produced on Pilot tenter stretching machine, MDO stretching ratio is 5, TDO stretching ratio is 8, thickness 20 µm

(3) Test specimen preparation method : Pursuant to ASTM D4101

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**Processing conditions:** Recommended extrusion temperature : 190 – 250 °C

Recommended stretching temperature : 130 – 160 °C

Recommended stretching ratio MD / TD : 4-7 / 7-10

**Storage and handling:** Aramco PP HP30EG should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C

**Food Contact and other Regulations:** Aramco PP HP30EG resins are suitable for food contact applications. Detailed information is provided in Material Safety Datasheet and for additional specific information, please contact Saudi Aramco Products Trading Company for certificates.



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