



CHEMISTRY THAT PERFORMS

# H110QS

## POLYPROPYLENE HOMOPOLYMER FOR TQPP FILM PRODUCTION

Nayara H110QS is Polypropylene Homopolymer made with Unipol technology using state of the art catalyst system. The grade is designed for making transparent and high gloss TQPP (Tubular Quenched PP) films for packaging applications. The grade is characterized with easy openability even at lower film thickness.

### APPLICATIONS

TQPP films for textile packaging, snack food packaging, agricultural produce wrapping films, incense stick packaging, bread packaging, garment bags, cast film for general purpose films etc.

### ADDITIVES

- Thermal Stabilizer
- Slip
- Anti-Block

### TYPICAL PROPERTIES

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
<b>Resin Properties</b>			
Melt Flow Rate (230° C. /2.16 Kg)	g/10 min.	ASTM D1238	11.0
Density @ 23° C.	g/cc	ASTM D792	0.900 – 0.910
<b>Film Properties (50 µ TQPP film)</b>			
Tensile Yield Strength (MD / TD)	MPa	ASTM D882	23 / 20
Tensile Strength at Break (MD / TD)	MPa	ASTM D882	34 / 31
Elongation at Break (MD / TD)	%	ASTM D882	600 / 700
Haze	%	ASTM D1003	< 3.0
Gloss @ 20 °	GU	ASTM D2457	105
C.O.F. (St. / Kn) (Film / Film)	---	ASTM D1894	0.24 / 0.20
<b>Thermal Properties</b>			
DSC Melting Point	° C	ASTM D3418	160 - 165

Note: All the properties mentioned above are typical properties and not to be considered as specifications. All the film properties are determined on 50 µ TQPP film processed with quench water temperature of 15° C.

#### Nayara Energy Limited

5<sup>th</sup> Floor, Jet Airways Godrej BKC, Plot No. C-68, G Block, Bandra Kurla Complex, Bandra (E), Mumbai 400051  
T +91 22 6612 1800 | Website: [www.nayaraenergy.com](http://www.nayaraenergy.com)

Registered. Office: Khambhalia, Post box no. 24, Dist. Devbhumi, Dwarka, Gujrat 361305; T +91 2833 661444

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## Typical Processing Guidelines:

Processing temperature: 210 – 255° C

Quench water temperature: 15 – 25° C

Note: The processing conditions mentioned above are for reference only. The conditions may vary based on the machine used and product to be manufactured.

## Regulatory Compliance:

The product complies with the requirements of,

(1) IS 10910:1984: Specification for Polypropylene & its Copolymers for safe use in contact with Foodstuff, Pharmaceutical & Drinking Water.

(2) IS 16738: 2001: The additives in the grade formulation comply to the “Positive List of Constituents of Polypropylene and its Copolymers in Contact with. Foodstuffs, Pharmaceuticals and Drinking Water”.

(3) FDA: CFR Title 21, 177.1520: Grade meets the requirements of the US FDA specifications and limitations in 21 CFR 177.1520 regarding safe use of articles or components of articles of olefin polymers intended for use in contact with food.

EPR compliance: The product is not to be used in the manufacture of single use plastic items prohibited under the Plastic Waste Management Rules, 2016 including plastic sheets < 50 micron thickness, non-woven carry bags < 60 GSM, Carry bags < 120 micron thickness.

## Storage:

Bags containing Nayara polymer products, should be stored in a covered dry place away from heat and sun rays. Recommended storage temperature is below 50° C.

## Disclaimer

The information provided in this technical data sheet is true to the best of our knowledge. The data provided in the document is for reference only and the values stated are typical values obtained when the polymer is processed under standard processing conditions and when tested as per stated test standards. Nayara energy do not guarantee or warrant the performance of the end product made from this grade. It is sole responsibility of the user to ascertain the suitability of the grade for intended application and process. User is advised to test the properties of the end product and to satisfy itself regarding performance. Nayara energy will not be responsible for any direct or indirect loss or damage or injury because of the use of this grade or information of the grade given in this document. This document is not a suggestion to use our grade. Nayara energy reserves the right to change the information presented in this document any time without any prior intimation.

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