



# NAYARA

CHEMISTRY THAT PERFORMS

## H240FG

Provisional

### POLYPROPYLENE HOMOPOLYMER FOR MULTIFILAMENT APPLICATIONS

Nayara H240FG is Polypropylene Homopolymer made with Unipol technology using state of the art catalyst system. The grade is having narrow molecular weight distribution and is formulated with anti-gas fading additive. The grade architecture allows the grade to be processed at high line speeds for producing fine denier high tenacity fibers.

#### APPLICATIONS

Multi-filament yarns for carpet backing, upholstery, fine denier fabric, staple fibers, spun bond non-wovens etc.

#### ADDITIVES

- Anti-Gas Fading

#### 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	24.0
Density @ 23° C.	g/cc	ASTM D792	0.900 – 0.910
<b>Mechanical Properties</b>			
Tensile Yield Strength	MPa	ASTM D638	37.0
Elongation at Yield	%	ASTM D638	8.0
Flexural Modulus (1 % Secant)	MPa	ASTM D790A	1600
Izod Impact Strength	J/m	ASTM D256	25
Hardness	Shore D	ASTM D2240	70
<b>Thermal Properties</b>			
DSC Melting Point	° C	ASTM D3418	160 - 165
Heat Deflection Temperature (0.45 MPa)	° C	ASTM D648	105

Note: All the properties mentioned above are typical properties and not to be considered as specifications. All the mechanical properties are determined on ASTM D638 Type I specimen when molded according to ASTM D4101.

#### Nayara Energy Limited

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## Typical Processing Guidelines:

Processing temperature: 210 – 260° C  
Quench temperature: 10 – 20° C

Godet Rolls temperature: 75 – 115° C  
Draw ratio: 2.7 – 3.2

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:

For regulatory compliance information of the grade, please contact Nayara Energy representative.

## 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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