

# Provisional Technical Datasheet



**Polypropylene Homo polymer**

**HT003T**

**Thermoforming**

## Product Characteristics:

MANGPOL HT003T is a Polypropylene Homopolymer produced by latest solvent free gas phase polymerization using Novolen Technology. This polymer is primarily suitable for Thermoforming applications and other transparent sheet extrusion.

HT003T features excellent processability coupled with high stiffness and stackability, superior gloss and clarity along with reduced cycle time due to presence of advanced nucleation mechanism. The anti-static agent present in the grade recipe reduces static charge buildup in the final product.

## Recommended Applications:

- HT003T is recommended for Thermoforming articles, Rigid Packaging etc.

## Typical Properties

Sr. No.	Properties	Test Method	Units	Typical Values
1.	Melt Flow Index (I <sub>2.16</sub> @230°C)	ASTM D 1238	g / 10 min	3.5
2.	Tensile Strength at Yield	ASTM D 638 (Type 1)	MPa	36
3.	Tensile Elongation at Yield		%	10
4.	Flexural Modulus	ASTM D 790	MPa	1750
5.	Izod Impact Strength	ASTM D 256	J /m	50
6.	Vicat Softening Point (10N)	ASTM D 1525	°C	154
7.	Heat Deflection Temperature (0.455MPa)	ASTM D 648	°C	110

- All the mechanical properties are as per ASTM D638 Type 1 injection molded specimen prepared in accordance with ASTM D 4101.

## Handling & Storage

Bags should be stored in dry & dust free environment at temperature below 50°C. Avoid direct exposure to sunlight & heat to avoid quality deterioration.

## Typical Processing Temperature

- Barrel Temperature : 190 - 230°C
- Die Temperature: 220 – 250 °C

**Disclaimer:** The above typical properties are not to be construed as Specifications and may change without any prior notice. The user will solely be responsible for any intended process / product usage and MRPL does not guarantee or undertake any responsibility for any consequential damage or loss based on the information given above.

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