

Provisional Technical Datasheet



Polypropylene Homo polymer

HM065AT

Injection Molding, TWIM

Product Characteristics:

MANGPOL HM065AT is a Polypropylene homo-polymer produced by latest solvent free gas phase polymerization using Novolen Technology. It is ideal material recommended for applications like TWIM, compounding, molding items with intricate part designs and long flow paths, multi-cavity molding, master-batches etc. HM065AT features excellent flow characteristics coupled with superior dimensional stability, stiffness, and reduced cycle time during processing.

This grade is not to be used for manufacturing of any direct / indirect food contact substance / applications.

Recommended Applications:

- HM065AT is recommended for Injecting Molding items of long flow path, TWIM, Compounding, Master-batches etc.

Typical Properties

Sr. No.	Properties	Test Method	Units	Typical Values
1.	Melt Flow Index (I _{2.16} @230°C)	ASTM D 1238	g / 10 min	65
2.	Tensile Strength at Yield	ASTM D 638 (Type 1)	MPa	35
3.	Tensile Elongation at Yield		%	12
4.	Flexural Modulus	ASTM D 790	MPa	1400
5.	Izod Impact Strength	ASTM D 256	J /m	25
6.	Heat Deflection Temperature (0.455MPa)	ASTM D 648	°C	105

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

Typical Processing Temperature

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

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.

Not to be used in the manufacture of Single use Plastic (SUP) items – Prohibited under PWM Rules-2016

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.

Mangalore Refinery & Petrochemicals Limited, Kuthethoor, P.O.: Via Katipalla, Mangalore, India, 575030, Corporate website: www.mrpl.co.in

Updated / Valid from: 01/07/2022