

Provisional Technical Datasheet



Polypropylene Homo polymer

HM025AR

TWIM, Multi Cavity Molding etc

Product Characteristics:

MANGPOL HM025AR is a Controlled Rheology Homo Polypropylene grade, recommended for Injection Molding Applications. This grade offers optimum balance of high stiffness and good flow-ability, coupled with excellent control over scratches and weld lines. HM025AR contains both antistatic and nucleating agent, which reduces the static charge build up and increase the hardness and resistance to heat deflection of the products.

Recommended Applications:

1. Furniture
2. Multi cavity Molding
3. Lamp Housings
4. Intricate designer parts with long flow paths

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	24
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	1700
5.	Izod Impact Strength	ASTM D 256	J /m	30
6.	Vicat Softening Point (10N)	ASTM D 1525	°C	150
7.	Heat Deflection Temperature (0.455MPa)	ASTM D 648	°C	120

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

Typical Processing Temperature

- Melt Temperature : 200 – 240°C
- Mold Temperature: 20 – 50°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.

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.