

## Provisional Technical Datasheet



Polypropylene Homo polymer

HM012CT

Clear Injection Molding Application

### Product Characteristics:

MANGPOL Homo-polymer polypropylene grade HM012CT is recommended for Injection Molded Applications. The sophisticated Clarifier package present in its additive recipe ensures its suitability for high clarity containers. The grade shows excellent balance between high class clarity and superior stiffness. The grade exhibits considerable amount of top load bearing strength.

### Recommended Applications:

HM012CT is recommended for Injection molded transparent application like transparent containers, housewares 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	12
2.	Tensile Strength at Yield	ASTM D 638 (Type 1)	MPa	38
3.	Tensile Elongation at Yield		%	6
4.	Flexural Modulus	ASTM D 790	MPa	1600
5.	Izod Impact Strength	ASTM D 256	J /m	28
6.	Vicat Softening Point (10N)	ASTM D 1525	°C	150
7.	Heat Deflection Temperature (0.455MPa)	ASTM D 648	°C	100
8.	Melting point	ASTM D 3418	°C	165

- 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 : 195 - 235°C
- Die Heater Temperature : 235 – 240 °C
- Quench Air Temperature : 15 - 18°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.