

Technical Datasheet



Polypropylene Homo polymer

HR005T

Woven Sacks, General Purpose

Product Characteristics:

MANGPOL HR005T is a Polypropylene Homo polymer produced by latest solvent free gas phase polymerization using Novolen Technology. This grade is primarily suitable for extrusion process in high speed lines for general purpose applications. HR005T features excellent processability coupled with low water carryover and excellent balance between tenacity and toughness with enhanced through put.

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

Recommended Applications:

- General purpose Applications.
- Wrapping

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 | 4.5 |
| 2. | Tensile Strength at Yield | ASTM D 638 (Type 1) | MPa | 34 |
| 3. | Tensile Elongation at Yield | | % | 9 |
| 4. | Flexural Modulus | ASTM D 790 | MPa | 1400 |
| 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 | 90 |

- 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 : 220 - 280°C
- Die Temperature : 260 - 280°C
- Quench Temperature : 30 - 40°C
- Oven Temperature : 155 - 160°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.

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