

## Provisional Technical Datasheet

# MH23



### Polypropylene Homo Polymer

### Injection Molding

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#### Product Description:

PP Homo polymer MH23 is a natural colored high flow grade produced with the latest Ineos Gas Phase polymerization Technology exhibiting

following features:

- ✓ Higher flow for easy processing.
- ✓ Good Stiffness.
- ✓ Good dimensional stability
- ✓ Faster Molding cycle

PP Homo Polymer MH23 is recommended for following applications:

- ✓ Household articles
- ✓ Consumer Products
- ✓ Rigid Packaging
- ✓ Thin walled molded articles

#### Typical Properties:

| Sr. No.                                                                                                                               | Properties                             | Test Method | Units              | Values* |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------|--------------------|---------|
| <b>Physical Properties</b>                                                                                                            |                                        |             |                    |         |
| 1                                                                                                                                     | Melt Flow Index ( 230°C & 2.16 kg)     | ASTM D1238  | g / 10 min         | 23      |
| 2                                                                                                                                     | Density (23 °C)                        | ASTM D 1505 | Gm/cm <sup>3</sup> | 0.90    |
| <b>Mechanical Properties</b>                                                                                                          |                                        |             |                    |         |
| 3                                                                                                                                     | Tensile Strength @ Yield (50mm / min)  | ASTM D 638  | MPa                | 35      |
| 4                                                                                                                                     | Elongation @ Break (50mm /min)         | ASTM D 638  | %                  | 200     |
| 5                                                                                                                                     | Flexural Modulus (1.3 mm/min)          | ASTM D790A  | MPa                | 1450    |
| 6                                                                                                                                     | Notch Izod Impact Strength ( @ 23°C)   | ASTM D 256  | J/m                | 20      |
| 7                                                                                                                                     | Hardness (Rockwell)                    | ASTM D 785  | R Scale            | 95      |
| <b>Thermal Properties</b>                                                                                                             |                                        |             |                    |         |
| 8                                                                                                                                     | Vicat Softening Point (10N)            | ASTM D1525  | °C                 | 150     |
| 9                                                                                                                                     | Heat Deflection Temperature (0.46N/m2) | ASTM D648   | °C                 | 100     |
| * Mechanical Properties tested on Injection molded specimen prepared in accordance with ASTM D 4101 and conditioned as per ASTM D 618 |                                        |             |                    |         |
| * Typical Values and not to be taken as specifications, values may change without any prior notice.                                   |                                        |             |                    |         |

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### Regulatory Requirements:

PP Homo Polymer grade MH23 shall meet the requirements stipulated in IS 10910 on 'Specification for Polypropylene and its Copolymers for use in contact with Foodstuff, Pharmaceutical & Drinking water'. The grade and Additives incorporated in this grade shall meet the positive list of constituents as prescribed in IS 10909. The Grade and the additives incorporated in it will also comply with the FDA: CFR Title 21,177.1520, Olefin Polymers.

### Storage & Handling:

Prevent PP Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the Storage temperature should not exceed 50 °C. Non - compliance to these precautionary measures can lead to degradation of the product causing Color changes, Odor & inadequate product performance.

### Health and Safety Information:

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at [www.opalindia.in](http://www.opalindia.in). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.



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