



Reliance Industries Limited

*P O L Y P R O P Y L E N E*

**REPOL H110MS**

**HOMOPOLYMER**

**Product description & applications :**

REPOL Polypropylene H110MS is manufactured using Unipol PP process which combines the production efficiency of gas phase fluidized bed reactor technology with the high activity stereospecific catalyst system.

Repol H110MS is recommended for **Injection Moulding processes**. Repol H110MS is an ideal choice for moulding furnitures. It is also suitable for applications where high stiffness is desired. Repol H110MS contains antistat agent that reduces static charge build-up on products

**Features :**

Repol H110MS is designed to provide :

- High stiffness
- Low static charge buildup and reduced dust pickup
- Consistent processability
- Excellent colour and processing stability

Typical properties of Repol H110MS are as follows :

| Property                             | ASTM Test Method    | Unit     | Typical Value* |
|--------------------------------------|---------------------|----------|----------------|
| Melt flow index, (230°C / 2.16kg)    | D 1238              | g/10 min | 11.0           |
| Tensile strength at yield (50mm/min) | D 638 <sup>s</sup>  | MPa      | 36             |
| Elongation at yield (50mm/min)       | D 638 <sup>s</sup>  | %        | 10             |
| Flexural modulus (1% secant )        | D 790A <sup>s</sup> | MPa      | 1750           |
| Notched Izod Impact strength (23°C)  | D 256 <sup>s</sup>  | J/m      | 35             |
| Heat deflection temp. (455 kPa)      | D 648               | °C       | 120            |

*§ : ASTM D638 Type I specimen injection moulded and tested in accordance with ASTM D4101*

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Repol H110MS meets the requirements stipulated in IS 10910 on “Specification for Polypropylene and its copolymers for safe use in contact with foodstuffs, pharmaceuticals, and drinking water”. Additives incorporated in this grade conform to the positive list of constituents as prescribed in IS-10909. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21,177.1520, Olefin polymers.

Repol H110MS passes following tests as per U.S.Pharmacopoeia XXIII:

- Undue toxicity test
  - Systemic injection test with four different extractants
  - Intracutaneous test with four different extractants.
- This grade also passes skin irritation test (open patch test) as per IS 4011-1982.

REPOL is the registered trademark for Polypropylene from Reliance Industries Limited