



Reliance Industries Limited

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

**REPOL H110MA**

**HOMOPOLYMER**

**Product description & applications :**

REPOL Polypropylene H110MA 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 H110MA is recommended for **Injection Moulding processes**. Repol H110MA is an ideal choice for moulding rigid containers, thermowares and housewares. It is also suitable as a compounding base and blending material in furniture compound. Repol H110MA contains antistat agent that reduces static charge build-up on products

**Features :**

Repol H110MA is designed to provide :

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

Typical properties of Repol H110MA 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>§</sup>	MPa	36
Elongation at yield (50mm/min)	D 638 <sup>§</sup>	%	10
Flexural modulus (1% secant )	D 790A <sup>§</sup>	MPa	1650
Notched Izod Impact strength (23°C)	D 256 <sup>§</sup>	J/m	27
Heat deflection temp. (455 kPa)	D 648	°C	104

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

04-05

Repol H110MA 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 H110MA 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

\* Typical values with injection moulded specimens, not to be taken as specification

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