



Reliance Industries Limited

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

REPOL H050MN

HOMOPOLYMER

Product description & applications :

REPOL Polypropylene H050MN 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 H050MN is recommended for **injection moulding** and is an ideal choice as a compounding base and blending material in Furniture Compound. It is also suitable for moulding Rigid Containers, Housewares and Thermowares. Repol H050MN contains Nucleating agent for high rigidity, reduced cycle time and Antistatic agent that reduces static charge build-up on products

Features :

Repol H050MN is designed to provide :

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

Typical properties of Repol H050MN are as follows :

Property	ASTM Test Method	Unit	Typical Value*
Melt flow index, (230°C / 2.16kg)	D 1238	g/10 min	5.0
Tensile strength at yield (50mm/min)	D 638 ^S	MPa	36
Elongation at yield (50mm/min)	D 638 ^S	%	10
Flexural modulus (1% secant)	D 790A ^S	MPa	1750
Notched Izod Impact strength (23°C)	D 256 ^S	J/m	35
Heat deflection temp. (455 kPa)	D 648	°C	110

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

04-05

REPOL H050MN 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 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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