



Technical Datasheet

M12RR Polypropylene Homopolymer

Injection Molding

Product Characteristics:

Polysure M12RR is Polypropylene Homopolymer, produced by latest Novolen Technology & Primarily suitable for General Purpose Injection Moulding, Furniture & Housewares applications. M12RR combines exceptional processability with low Cycle Time & excellent product aesthetics.

Recommended Applications:

M12RR is recommended for General Purpose Injection Moulding, Container, Toys, Caps, Closures, Furniture, Housewares & Compounding.

Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index (230°C & 2.16 kg)	ASTM D1238	g/10 min	12
2	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	35
3	Tensile Elongation @ Yield (50mm / min)	ASTM D638	%	10
4	Flexural Modulus (1% Secant)	ASTM D790A	MPa	1450
5	Notch Izod Impact Strength (23°C)	ASTM D256	J/m	30
6	Vicat Softening Point (10N)	ASTM D1525	°C	153
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	95

**All the mechanical properties are tested on Injection molded Test Specimen, prepared in accordance with ASTM D 4101*

Processing Guidelines:

- Barrel Temperature : 180 - 280°C
- Mold Temperature : 30 - 40°C

Storage & Handling:

Bags should be stored in dry & dust free environment at temperature below 50°C and Prevent from direct exposure to sunlight & heat to avoid quality deterioration.

Regulatory Requirements:

M12RR is manufactured complying the requirements specified in IS on "Specification for Polypropylene & its Copolymers for safe use in contact with Foodstuff, Pharmaceutical & Drinking water". Furthermore the Additives added in this grade formulation compiles to the "Positive list of constituents of Polypropylene and its Copolymers in contact with Foodstuff, Pharmaceutical & Drinking water" as laid down under IS 10909. In general the additives & constituents used in the grade are in line with requirement laid down under FDA: CFR Title 21,177.1520, Olefin Polymers.

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