



Provisional Technical Datasheet

M12RR1 Polysure PP Homopolymer

Injection Molding

Product Characteristics:

Polysure M12RR1 is a Polypropylene Homopolymer, produced by latest Spheripol – II Technology & primarily suitable for Injection Molding Process. M12RR1 combines exceptional processability with low cycle time, minimal warpage & excellent product aesthetics.

Recommended Applications:

General Purpose Injection Molding, Containers, Toys, Caps, Closures, Furniture, Housewares, Compounding

Typical Properties:

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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 at Yield, Type I Specimen	ASTM D638 (50 mm / min)	MPa	35
3	Tensile Elongation at Yield, Type I Specimen		%	12
4	Flexural Modulus (1% Secant)	ASTM D790A	MPa	1550
5	Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	30
6	Vicat Softening Point (10 N)	ASTM D1525	°C	154
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	100

*All the mechanical properties are tested on Injection molded Test Specimen, prepared in accordance with ASTM D4101

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:

M12RR1 to be manufactured complying the requirements specified in IS 10910 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 for Polypropylene, Polyethylene and their Copolymers for its safe use in contact with Foodstuffs & Pharmaceuticals" as laid down under IS 16738:2018. 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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