

Provisional Technical Datasheet

RP01TR Polysure PP Random Copolymer

PPR Pipe

Product Characteristics:

Polysure RP01TR is a Polypropylene Random Copolymer, produced by latest Spheripol – II Technology & primarily suitable for Pipe extrusion process. This grade contains thermal stabilizer. RP01TR combines smooth surface finish & long service life in PPR pipes.

Recommended Applications:

Hot water PPR pipe, Pipe fittings, Sheet, Extrusion

Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index (230°C & 2.16 kg)	ASTM D1238	g/10 min	0.3
2	Tensile Strength at Yield, Type I Specimen	ASTM D638 (50 mm / min)	MPa	28
3	Tensile Elongation at Yield, Type I Specimen		%	13
4	Flexural Modulus (2% Secant)	ASTM D790A	MPa	950
5	Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	No Break
6	Vicat Softening Point (10 N)	ASTM D1525	°C	135
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	92

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

Processing Guidelines:

- Barrel Temperature: 190 - 230°C
- Die Temperature : 190 - 210°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.

This grade meets the requirements of IS 10951:2020 - Specification for Polypropylene Material for Moulding and Extrusion.

Regulatory Requirements:

RP01TR 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.

Updated as of July 2025