



Technical Datasheet

F03RR Polysure PP Homopolymer

BOPP Film

Product Characteristics:

Polysure F03RR is Polypropylene Homopolymer, produced by Latest Novolen Technology & Primarily suitable for BOPP Stenter Process Applications. F03RR combines narrow MFR specification range especially for consistence processing on high speed BOPP lines. The product is free from metal stearates and functional additives like slip agents and is therefore in particular suitable for metallisable BOPP film.

Recommended Applications:

F03RR is recommended for General Purpose BOPP Films, Metallizable BOPP Films (Stenter process) & lamination grade BOPP Films.

Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index (230°C & 2.16 kg)	ASTM D1238	g/10 min	3.2
2	Tensile Strength at Yield, Type I Specimen	ASTM D638 (50 mm / min)	MPa	35
3	Tensile Elongation at Yield, Type I Specimen		%	11
4	Flexural Modulus (2% Secant)	ASTM D790A	MPa	1400
5	Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	45
6	Vicat Softening Point (10 N)	ASTM D1525	°C	153
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	90

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

Processing Guidelines:

- Barrel Temperature : 230 - 280°C
- Quench Temperature : 10 - 15°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:

F03RR 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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