



Technical Datasheet

F10SR Polypropylene Homopolymer

TQPP Films

Product Characteristics:

Polysure F10SR is Polypropylene Homopolymer, produced by Latest Novolen Technology & Primarily suitable for Tubular water quench film applications. F10SR combines exceptional processability with superior Slip, Anti Blocking properties, Excellent Clarity and Gloss.

Recommended Applications:

F10SR is recommended to Process Tubular Quenched (TQ) Film for packaging foodstuffs and garments, snack food, grocery & general purpose packaging

Typical Properties:

| Sr. No. | Property | Test Method | Unit | Value* |
|---------|---|-------------|----------|--------|
| 1 | Melt Flow Index (230°C & 2.16 kg) | ASTM D1238 | g/10 min | 10.5 |
| 2 | Tensile Strength @ Yield (50mm / min) | ASTM D638 | MPa | 33 |
| 3 | Tensile Elongation @ Yield (50mm / min) | ASTM D638 | % | 10 |
| 4 | Flexural Modulus (1% Secant) | ASTM D790A | MPa | 1300 |
| 5 | Notch Izod Impact Strength (23°C) | ASTM D256 | J/m | 35 |
| 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 - 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.

Regulatory Requirements:

F10SR is 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 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.

Updated as of September 2023

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