

Technical Datasheet

R0150S Polysure HDPE

Raffia

Product Characteristics:

Polysure R0150S is 1-butene comonomer based High Density Polyethylene, produced by Gas Phase – UNIPOL™ PE technology, suitable for Raffia tape Extrusion process. R0150S resin offers excellent processability with low water carry over, good stretchability, superior mechanicals, and resistance to fibrillation.

Recommended Applications:

Woven sacks, Raffia, Tarpaulins

Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g/10 min	1.0
2	Density (23°C)	ASTM D1505	g/cc	0.950
3	Tensile Strength at Yield, Type IV Specimen	ASTM D638 (50 mm / min)	MPa	25
4	Tensile Strength at Break, Type IV Specimen		MPa	35
5	Tensile Elongation at Break, Type IV Specimen		%	950
6	Flexural Modulus (2% Secant)	ASTM D790B	MPa	1000
7	Notched Izod Impact Strength (23°C)	ASTM D256	J/m	450
8	Vicat Softening Point (10N)	ASTM D1525	°C	127

* All the mechanical properties are determined on Compression Molded Test Specimen, prepared in accordance with ASTM D4703

Processing Guidelines:

- Barrel Temperature : 190 - 240°C
- Die Temperature : 220 - 240°C
- Quench Temperature : 25 - 30°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 7328:2020 - Specification for Polyethylene Material for Moulding and Extrusion.

Regulatory Requirements:

R0150S to be manufactured complying the requirements specified in IS 10146 on “Specification for Polyethylene for its safe in contact with Foodstuff, Pharmaceutical & Drinking water”. Furthermore, the Additives added in this grade formulation complies 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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