



Provisional Technical Datasheet

P0147DU Polysure HDPE

PE 63 UV Pipe

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Product Characteristics:

Polysure P0147DU is a 1-Hexene co-monomer based High Density Polyethylene, produced by Advanced Dual Loop Slurry MarTECH™ technology, suitable for Pipe Extrusion process. P0147DU offers excellent processability & good mechanical properties. This UV stabilized grade is specifically designed for long term outdoor exposure during service life. Pipes made with P0147DU have smooth surface finish, good creep resistance and high ESCR.

Recommended Applications:

Telecom Ducts, PLB (Pre-Lubricated) Ducts, Optical fiber cable laying ducts and other non-pressure pipe applications

Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index (190°C & 5 kg)	ASTM D1238	g/10 min	0.9
2	Density (23°C)	ASTM D1505	g/cc	0.947
3	Tensile Strength at Yield, Type IV Specimen	ASTM D638 (50 mm / min)	MPa	28
4	Tensile Elongation at Break, Type IV Specimen		%	600
5	Flexural Modulus (1% Secant)	ASTM D790A	MPa	850
6	Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	250
7	Vicat Softening Point (10N)	ASTM D1525	°C	120
8	ESCR (F50), 10% Igepal	ASTM D1693	Hour	750
9	Oxidative Induction Time	ASTM D3895	min	>30

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

Processing Guidelines:

- Barrel Temperature : 180 - 220°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:

P0147DU 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 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 May 2021

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