



## Provisional Technical Datasheet

# W0426L Polysure LLDPE

## Wire and Cable Extrusion

### Product Characteristics:

Polysure W0426L is a 1-butene comonomer based Linear Low Density Polyethylene, produced by Gas Phase – UNIPOL™ PE technology and primarily suitable for Wire & Cable Extrusion process. This is a barefoot resin and has to be suitably additivated for end use requirements. W0426L offers smooth processability, excellent abrasion resistance and superior adhesion.

### Recommended Applications:

Low Voltage Power Cable Insulation using Silane-Crosslinking, Cable compound applications

### Typical Properties:

Sr. No.	Property	Test Method	Unit	Value
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g/10 min	3.7
2	Density (23°C)	ASTM D1505	g/cc	0.926
3	Tensile Strength at Yield, Type IV Specimen	ASTM D638 (50 mm / min)	MPa	11
4	Tensile Strength at Break, Type IV Specimen		MPa	16
5	Tensile Elongation at Break, Type IV Specimen		%	800
6	Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	500
7	Flexural Modulus (1% Secant)	ASTM D790A	MPa	550
8	Vicat Softening Point (10N)	ASTM D1525	°C	108
9	Durometer Hardness	ASTM D2240	Shore D	52

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

### Processing Guidelines:

- Processing Temperature : 180 - 220°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:

W0426L 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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