



## Provisional Technical Datasheet

# Y25GR Polypropylene Homopolymer

## Fibre & Filaments

### Product Characteristics:

Polysure Y25GR is Controlled Rheology Polypropylene Homopolymer, produced by Novolen Technology & Primarily suitable for making multifilament yarn & non-woven fabrics; it can also be used in extrusion coating applications. Y25GR combines superior resistance to gas fading and inherent basic UV protection.

### Recommended Applications:

Y25GR is recommended for Multi filament yarn, Non-woven fabrics & Extrusion coating application.

### Typical Properties:

Sr. No.	Properties	Test Method	Units	Values *
1	Melt Flow Index ( 230°C & 2.16 kg)	ASTM D1238	g/10 min	25
2	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	34
3	Tensile Elongation @ Yield (50mm / min)	ASTM D638	%	8
4	Flexural Modulus	ASTM D790	MPa	1350
5	Notch Izod Impact Strength ( 23°C)	ASTM D256	J/m	30
6	Vicat Softening Point (10N)	ASTM D1525	°C	154
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	95

\*All the mechanical properties as per ASTM D638 Type I Injection molded specimen prepared in accordance with ASTM D 4101

### Processing Guidelines:

- Barrel Temperature : 195 - 240°C
- Avg.Die Heater Temperature : 240 - 242°C
- Quench Air Temperature : 15 - 18°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:

Y25GR 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.

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