Technical Datasheet

Y35GR Polypropylene Homopolymer

Fiber & Filaments / Nonwovens

Product Characteristics:

Polysure Y35GR is Controlled Rheology Polypropylene Homopolymer, produced by Latest Novolen Technology & Primarily suitable for fiber spinning operation for making fine denier monofilament yarns & non-woven fabrics. Y35GR combines superior resistance to gas fading and inherent basic UV protection.

Recommended Applications:

Y35GR is recommended for Non-woven spun bonded fabrics & fine denier multifilament yarns.

Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index (230°C & 2.16 kg)	ASTM D1238	g/10 min	35
2	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	33
3	Tensile Elongation @ Yield (50mm / min)	ASTM D638	%	11
4	Flexural Modulus (1% Secant)	ASTM D790A	MPa	1150
5	Notch Izod Impact Strength (23°C)	ASTM D256	J/m	30
6	Vicat Softening Point (10N)	ASTM D1525	^{o}C	153
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	^{o}C	90

All the mechanical properties are tested on Injection molded Test Specimen, prepared in accordance with ASTM D 4101

Processing Guidelines:

- Barrel Temperature   : 195 - 235°C
- Avg.Die Heater Temperature   : 235 - 240°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:

Y35GR 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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