Provisional Technical Datasheet

T03NR Polypropylene Homopolymer   Thermoforming

Product Characteristics:

Polysure T03NR is Polypropylene Homopolymer, produced by Latest Novolen Technology & primarily suitable for Thermoforming applications. T03NR combines exceptional processability with excellent Stiffness & reduced cycle time due to presence of nucleating agent and also presence of antistatic agent that reduces static charge build-up in products, with superior Clarity & Gloss.

Recommended Applications:

T03NR is recommended for Thermoforming Cups, Disposable articles & Rigid Packaging.

Typical Properties:

Sr. No.	Properties	Test Method	Units	Values[*]
1	Melt Flow Index (230°C & 2.16 kg)	ASTM D1238	g/10 min	3.5
2	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	36
3	Tensile Elongation @ Yield (50mm / min)	ASTM D638	%	9
4	Flexural Modulus	ASTM D790	MPa	1650
5	Notch Izod Impact Strength (23°C)	ASTM D256	J/m	35
6	Vicat Softening Point (10N)	ASTM D1525	^{o}C	154
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	^{o}C	100

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

Processing Guidelines:

- Barrel Temperature   : 190 - 230°C
- DieTemperature   : 220 - 250°C

Storage & Handling:

Bags should be stored in dry & dust free environment at temperature below 50 ^{o}C and Prevent from direct exposure to sunlight & heat to avoid quality deterioration.

Regulatory Requirements:

T03NR 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.