

Provisional Technical Datasheet



Polypropylene - Homopolymer 1030FG for Biaxially Oriented Film Applications

Product Description :

PP Homopolymer 1030FG is a natural colored grade produced by the latest Spheripol II Technology of Basell. This grade gives reliable & consistent processing on BOPP Stenter lines with low water carry over, excellent thickness control & increased processability. It possess excellent clarity, gloss, mechanical strength, high impact & puncture resistance and barrier to moisture, aroma, fats & oils.

Applications :

PP Homopolymer 1030FG is recommended for General Purpose, Co-extruded Biaxially Oriented Polypropylene (BOPP) film and Metallisable BOPP film.

Typical Properties

Sr. No.	Properties	Test Method	Units	Values*
1	Melt Flow Index (230°C & 2.16 kg)	ASTM D1238	g / 10 min	3
2	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	32
3	Elongation @ Yield (50mm / min)	ASTM D638	%	10
4	Flexural Modulus	ASTM D790	MPa	1450
5	Notch Izod Impact Strength (23°C)	ASTM D256	J/m	45
6	Vicat Softening Point (10N)	ASTM D1525	°C	155
7	Heat Deflection Temperature (0.46N/m2)	ASTM D648	°C	95

* All Mechanical Properties as per ASTM D638 Type I Injection moulded specimen Prepared in accordance with ASTM D 4101

* Typical Values and not to be taken as specifications

Processing Guidelines:

1. Barrel Temperature : 230 - 280 °C
2. Water bath Temperature: 10 - 15 °C

Regulatory Requirements:

PP Homopolymer 1030FG shall meet the requirements stipulated in IS 10910 on 'Specification for Polypropylene and its Copolymers for safe use in contact with Foodstuff, Pharamaceutical & Drinking water'. The grade and additives incorporated in this grade shall meet the positive list of constituents as prescribed in IS 10909. The grade and the additives incorporated in it will also comply with the FDA:CFR Title 21,177.1520, Olefin Polymers

Storage & Handling:

Prevent PP Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the storage temperature should not exceed 50°C. Non - compliance to these precautionary measures can lead to degradation of the product causing color changes, odor & inadequate product performance.

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