

Polypropylene Homopolymer

Injection Molding

Product Description:

PROPEL 1200MC is a transparent Polypropylene Homopolymer grade from Spheripol-II Technology. It is designed to give transparency, high flowability and excellent mechanical properties for dimensional stability and it is ideal for multicavity molding.

Recommended Applications:

PP Homopolymer 1200MC is recommended for

- Medical syringe barrels

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Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (230°C & 2.16 Kg)	ASTM D 1238	gm/10 min	20.0
Density @ 23°C	ASTM D 1505	gm/cm ³	0.90
Mechanical Properties			
Tensile Strength @ Yield (50 mm/min)	ASTM D 638	MPa	40
Elongation @ Yield (50 mm/min)	ASTM D 638	%	08
Flexural Modulus (1.3 mm/min)	ASTM D 790	MPa	1700
Notched Izod Impact Strength @ 23°C	ASTM D 256	J/m	35
Thermal Properties			
Heat Deflection Temperature (0.46 N/mm ²)	ASTM D 648	°C	110
Vicat Softening Point (10 N)	ASTM D 1525	°C	150

* Typical values not to be construed as specification limits. Values may change without any prior notice.

* Mechanical properties tested on specimen molded as per ASTM D 4101 and conditioned as per ASTM D 618.

Recommended Processing Temperature: 180 – 230 °C

Packaging Information:

This material is packed and available in raffia bags with net content of 25.0 Kg only. The raffia bags used conform to the minimum strength requirements of BIS, however, customer shall take due care while handling the bag. Prolonged exposure of these bags to sunlight may deteriorate the bag's performance and cause spillage and wastage. IOCL does not warrant loss of material due to poor material handling practices.

Regulatory Information:

1200MC grade shall meet the requirements stipulated in IS 10910 on 'Specification for Polypropylene and its Copolymers for safe use in contact with Foodstuff, Pharmaceutical & Drinking water'. 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. This grade complies with the requirement of Biocompatibility test like Skin sensitization, Intracutaneous reactivity, Intravenous toxicity, Genotoxicity Test and other Implantation & Physicochemical test as per Indian Pharmacopoeia test (IP-1996) intended for any medical & pharmaceutical applications. The grade is registered in FDA drug master file list. (DMF No. 034998)

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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. It is advised to process PP material within 06 months after delivery.

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