

# MR20K



## Polypropylene Random Co Polymer

## Injection Molding & ISBM

### Product Description:

PP Random Co polymer MR20K is a natural colored high clarity grade produced with the latest Ineos Gas Phase polymerization Technology exhibiting following features:

- Excellent Clarity
- Good Rigidity
- Good gloss
- Easy to process
- Anti-static properties

PP Random Co Polymer MR20K is recommended for Injection Molding and Injection Stretch Blow Molding process to produce:

- ✓ Rigid Packaging
- ✓ Transparent Housewares
- ✓ Thin wall containers
- ✓ ISBM bottles & containers

### Typical Properties:

Sr. No.	Properties	Test Method	Units	Values*
<b>Physical Properties</b>				
1	Melt Flow Index ( 230°C & 2.16 kg)	ASTM D1238	g / 10 min	20
2	Density (23 °C)	ASTM D 1505	Gm/cm <sup>3</sup>	0.90
<b>Mechanical Properties</b>				
3	Tensile Strength @ Yield (50mm / min)	ASTM D 638	MPa	30
4	Elongation @ Break (50mm / min)	ASTM D 638	%	>200
5	Flexural Modulus (1.3 mm/min)	ASTM D790A	MPa	1100
6	Notch Izod Impact Strength ( @ 23°C)	ASTM D 256	J/m	40
7	Hardness (Rockwell)	ASTM D 785	R Scale	80
<b>Thermal Properties</b>				
8	Heat Deflection Temperature (0.46N/m <sup>2</sup> )	ASTM D648	°C	90
* Mechanical Properties tested on Injection molded specimen prepared in accordance with ASTM D 4101 and conditioned as per ASTM D 618				
* Typical Values and not to be taken as specifications, values may change without any prior notice.				

**Recommended Processing Temperature: 180 . 220 °C**

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### **Regulatory Requirements:**

PP Co Polymer grade MR20K 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'. 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.

### **Health and Safety Information:**

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at [www.opalindia.in](http://www.opalindia.in). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.



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