



R120MK

RANDOM COPOLYMER FOR INJECTION MOULDED PRODUCTS

Repol R120MK is recommended for use in Injection Molding & Stretch Blow Molding processes. It is an ideal material for attaining high clarity in housewares, syringes and ISBM products. Repol R120MK contains clarifier and antistatic agent that reduces static charge build-up on products

Typical Characteristics

Property	Test Method	Unit	Typical Value*
Melt Flow Rate (230°C/2.16 kg)	ASTM D1238	gm/10 min	12
Density	ASTM D792	g/cc.	0.90
Tensile Strength at Yield (50 mm/min.)	ASTM D638	MPa	28
Elongation at Yield (50 mm/min.)	ASTM D638	%	12
Flexural Modulus (1% Secant)	ASTM D790A	MPa	1200
Notched Izod Impact Strength (23 °C.)	ASTM D256	J/m	60
Heat Deflection Temperature (455 KPa)	ASTM D648	°C	95
Hardness – Shore D	ASTM D2240	---	67

* Typical values, not to be taken as specification. All the mechanical properties as per ASTM D638 Type I specimen injection molded in accordance with ASTM D4101

Typical Processing Conditions

Melt temperature: 210 – 250 °C

Mold temperature: 30 – 50 °C

Note: Processing parameters mentioned above are for reference only and not to be considered as specifications. They may vary based on the product to be manufactured.

Applications

Clarified random copolymer, rigid containers, houseware, ISBM bottles, syringes.

Regulatory Information

The product complies with Indian Standard IS 10910 on “Specification for polypropylene and its copolymers for safe use in contact with foodstuffs, pharmaceuticals and drinking water. It also conforms to IS 16738:2018 on positive list of constituents for polypropylene, polyethylene and their copolymers for its safe use in contact with foodstuffs and pharmaceuticals. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21,177.1520, Olefin polymers.

Storage Recommendations

Bags should be stored in dry / closed conditions at temperatures below 50°C and protected from UV / direct sunlight.