

**Polymeric Methylene diphenyl Di-Isocyanate  
Crude MDI (Low Functionality)**



**Karun Petrochemical Company**

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Property	Specification	Analytical Method
Appearance	Dark Brown liquid	Visual
NCO (Wt. %)	Min. 31.0	ASTM D5155-14 Method A
Hydrolysable Chloride (Wt.%)	Max. 0.2	ASTM D4663-15
Acidity as HCL (Wt.%)	Max. 0.05	ASTM 6099-13(High acidity) ASTM 5629-11(Low acidity)
Viscosity at 25(°C) (mPa.s)	40-100	ASTM D4889-15
Specific Gravity at 25(°C)	1.20-1.25	ASTM D4659-14

⇒ The current manufacturing technology of most isocyanates is based on the phosgenation of primary amines.

■ **Application areas**

Polymeric MDI is commonly used to manufacture:

- ✓ Flexible foams – used for the fabrication of prepolymers for bedding, furniture, automotive seating, flexible packaging and carpet underlay; this is the largest market application for Polymeric MDI
- ✓ "Foamed-in-place" polyurethane plastics – ranging from soft and sponge-like to hard and porous for use in furniture, packaging, insulation and boat building
- ✓ Polyurethane coatings – used on leather, wire, tank linings and masonry
- ✓ Cast elastomers – for production of articles such as roller blade wheels

■ **Handling and storage conditions**

Use only with adequate ventilation. Do not eat, drink, or smoke in working area. Never use welding/cutting torch near storage containers, even if empty, because even residual product can ignite explosively. Product must be stored at 20°C to 40°C.

Storage stability: The best time is 6 month and it can be extended to 12 month.

■ **Packing details**

In 220 lit (250 kg Net.) new steel drum, each 4 drums strapped on a wooden pallet.

■ **Licensor: Chematur Engineering (CEAB), Sweden.**