

**Methylene diphenyl Di-Isocyanate (MDI),
Ortho-MDI 50**



Karun Petrochemical Company

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Property	Specification	Analytical Method
Appearance	Liquid: Yellow Solid: Yellow	Visual
Purity (Wt. %)	Min. 99.5	2-2.9.3-1059
4,4'-MDI (Wt. %)	45.0-55.0	2-2.9.3-1059
NCO (Wt. %)	Min. 33.2	ASTM D5155-14 Method A
Acidity as HCL (Wt.%)	Max. 0.01	ASTM 5629-II

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

■ **Application areas**

KM-50 is commonly provides better flowability for the production of injection molding. manufacture:

- ✓ Elastomers – used to produce adhesives, films and linings, and abrasive wheels and other mechanical items that require abrasion and solvent resistance
- ✓ Urethane sealants – used in construction applications
- ✓ substitute for TDI – for production of flexible PU foam, which will reduce productive cost and environmental pollution and improve handling conditions
- ✓ Flexible foams – used for the fabrication of bedding, furniture, automotive seating, flexible packaging and carpet underlay; this is the largest market application for MDI

■ **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 under a dry nitrogen blanket. Extended storage will result in insoluble dimers.

■ **Packing details**

In 220 lit (225 kg Net.) new steel drum, each 4 drums strapped on a wooden pallet.

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