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KARUN PETROCHEMICAL CO

METHYLENE DIPHENYL DIISOCYANATE (MDI)

Methylene diphenyl diisocyanate, most often abbreviated as MDI, is an aromatic diisocyanate. Three isomers are common, varying by the positions of the isocyanate groups around the rings: 2,2'-MDI, 2,4'-MDI, and 4,4' MDI. The 4,4' isomer is most widely used, and is also known as 4,4'-diphenylmethane diisocyanate.

Producer	Applications
Karun	Rigid polyurethane foams provide structure and insulation in construction panels, wood alternatives, and appliances. In contrast, flexible foams dominate MDI applications, cushioning everything from furniture and bedding to car seats, while also contributing to packaging and carpet underlays.

Typical Properties			
Resin Properties	Unit	Spec	Test Method
Appearance	-	Dark Brown liquid	Visual
NCO	WT%	30.0-32.0	ASTM D5155-14
Hydrolysable Chloride	WT%	Max. 0.2	ASTM D4663-15
Acidity as HCL	WT%	Max. 0.05	ASTM 6099-13
Viscosity at 25(°C)	mPa.s	150-250	ASTM D4889-15
Specific Gravity at 25(°C)	°C	1.22-1.25	ASTM D4659-14
Isocyanate Equivalent Weight	gr/eq	131-140	ASTM D5155-14