

**Technical Data Sheet**

**MDI – KP200**

Methylene diphenyl Di-Isocyanate

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.

**Applications:**

Pure MDI is commonly used to manufacture:

Flexible foams – used for the fabrication of bedding, furniture, automotive seating, flexible packaging and carpet underlay; this is the largest market application for 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

Elastomers – used to produce adhesives, films and linings, and abrasive wheels and other mechanical items that require abrasion and solvent resistance

Rigid, “pour-in-place” foams – for use in appliances, and, in smaller amounts, packaging

Urethane sealants – used in construction applications

Cast elastomers – for production of articles such as roller blade wheels

Properties	Value	Test Method
Appearance	Dark Brown Liquid	Visual
NCO %wt	30-32	2-2.9.3-I054
Hydrolysable Chloride %wt	Max 0.2	2-2.9.3-I048
Viscosity at 25(°C)	150-300	2-2.9.3-I040
Specific Gravity at 25(°C)	12-125	–

Note: This information is based on our current knowledge and experience. In view of many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.