

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:

KP-200 is commonly used to manufacture:

- ✓ Rigid foams- used to produce sandwich panels and polyurethane wood.
- ✓ 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
- ✓ Rigid, “pour-in-place” foams – for use in appliances, and, in smaller amounts, packaging
- ✓ Cast elastomers – for production of articles such as roller blade wheels

Properties	Value	Test Method
Appearance	Dark Brown Liquid	Visual
NCO %wt	30-32	ASTM 05155-14 Method A
Hydrolysable Chloride %wt	Max 0.2	ASTM 04663-15
Acidity as HCL %wt	Max 0.05	ASTM 6099-13(High acidity) ASTM 5629-11(Low acidity)
Viscosity at 25(°C) (mPa.s)	150-250	ASTM D4889-15
Specific Gravity at 25(°C)	1.22-1.25	ASTM D4659-14
Isocyanate Equivalent Weight(gr/eq)	131-140	ASTM 05155-14 Method A