

**Polymeric Methylene diphenyl Di-Isocyanate  
Polymeric MDI (Meduim Functionality)**



Karun Petrochemical Company

| Property                             | Specification     | Analytical Method                                         |
|--------------------------------------|-------------------|-----------------------------------------------------------|
| Appearance                           | Dark Brown liquid | Visual                                                    |
| NCO (Wt. %)                          | 30.0-32.0         | ASTM D5155-14 Method A                                    |
| Hydrolysable Chloride (Wt.%)         | Max. 0.2          | ASTM D4663-15                                             |
| Acidity as HCL (Wt.%)                | Max. 0.05         | ASTM D6099-13(High acidity)<br>ASTM D5629-11(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 D5155-14 Method A                                    |

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

■ **Application areas**

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

■ **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.

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