POLYMERIC MDI SERIES

PRODUCT CHARACTERISTICS

Polymeric Methylene Diphenyl Diisocyanate (MDI) is used in the manufacture of various products, including rigid foam, semi-rigid foam and CASE. Polymeric MDI is classified into a variety of grades according to viscosity, among which users can choose the most suitable for their purposes. The characteristics of each of the major products are a s follows:

1.COSMONATE M-80, M-100

Polymeri

c M DI having low viscosity and low functionality, this product features outstanding compatibility with PPG , along with excellent flowability and moldability.

2.COSMONATE M-200

Th

e most widely used product among the Polymeric MDI, it is commonly used for various manufacturing purposes, such as the production of rigid polyurethane foams and semi-rigid polyurethane foams.

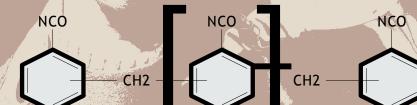
3. COSMONATE SR-500

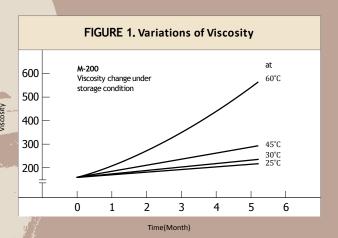
02

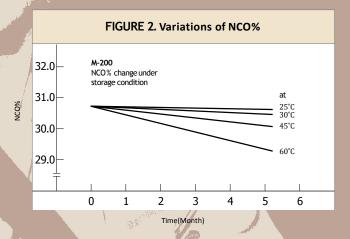
03

A high-viscosity polymeric MDI with high functionality, it is suitable for the production of Rigid PIR foams, due to its excellent flame retardancy and high compressive strength.

CHEMICAL STRUCTURE







SPECIFICATIONS

	PRODUCT	M-80	M-100	M-100S	M-200	SR-180C	SR-500	
	Appearance	Dark Brown Liquid						
	NCO Content(Wt%)	30.0~32.0	30.0~32.0	30.0~32.0	30.0~32.0	30.0~32.0	30.0~32.0	
	Viscosity(cps/25°C)	45~115	100~180	150~220	150~220	150~220	400~550	
	SP.GR(25°C)	1.23~1.25	1.23~1.25	1.23~1.25	1.23~1.25	1.23~1.25	1.23~1.25	
	Acid(Wt%)	Max. 0.1						
4	H.C(Wt%)	Max. 0.3						

05

06

APPLICATIONS

Insulations for refrigerators and container transport, Insulation panels for construction, LNG carriers, Pre-insulated pipes, Board foam, Wood imitation, Spray insulations, Auto Instrumental Panel, Auto headliner and adhesives



HANDLING AND STORAGE

Contact with water must be avoided during use and storage, as these products generate insoluble urea on contact with water. Packing containers must be c harged with inert gas such as nitrogen and air tightly sealed, and stored at 15~35°C. Careful attention must be paid to storage times, as both physical and chemical properties deteriorate with time. Figures 1 and 2 at front page indicate the expected variability of NCO content and viscosity over time at differe nt temperature ranges.

SAFETY AND HEALTH

May cause inflammation of skin or irritation if contacted with skin or inhaled. Wear protective gear, including goggles, mask and gloves when handling this product. In case of accidental exposure, take the following emergency measures and seek appropriate medical attention:

- 1) In case of skin contact:
- 2) In case of eye contact:
- 3) In case of inhalation:

Carefully wash entire area with soapy water, or take a shower if the exposed area is large, and seek medical attention. Rinse with large volumes of clean water for at least 15 minutes, regardless of level of exposure, and seek immediate medical attention. Move

to a well-ventilated area, and seek medical attention. If breathing difficulties develop, provide artificial respiration or oxygen.

* Maximum permissible concentration in the air: 0.02 ppm.

PRODUCT PACKAGING

07