

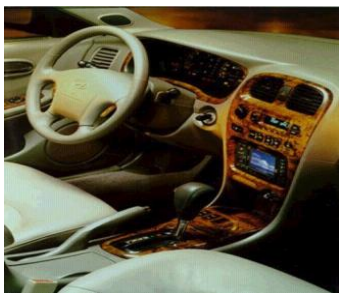
COSMONATE PM-35

-Technical Data Sheet-

1. Feature of product

Cosmonate PM-35 is special modified MDI that is used for car interiors as air bag cover of passenger side and steering wheels. Cosmonate PM-35 is liquefied product in normal temperature, and is most stable when stored under freezing conditions and also could be handled the best. When in solvent-free form, it is mixed with 4,4-diphenylmethane diisocyanate MDI monomer. When these are mixed with high resolution oligomer that is of dimer, trimer and tetramer, it becomes a product that has up to maximum viscosity of 190cps(25°C).

2. Product of the field of application



Steering Wheel



Arm Rest



Air Bag Cover or Passenger SideCover

Cosmonate PM-35 is special modified MDI that is used as semi-hard foam for passenger air bag cover and arm rest as well as in manufacturing various car interiors as steering wheel. It is advantageous in making complicated mold with its low viscosity and mild reaction, and it has good ventilation and elasticity rate which is widely used for various usage.

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3. Product specifications and General Property

Category	Assessment methods	Unit	Result
Product standard			
NCO content	ASTM D 1638	wt%	27.0 ~ 28.0
viscosity (25°C)	ASTM D 1638	cps	90 ~ 190
the specific gravity (25°C)	ASTM D 1638	-	1.20 ~ 1.24
Properties of general			
By product appearance			light brown liquid
Congeval point		°C	-10 Below
Medium pressure(25°C)		mmHg	strong enough to ignore
Flash point		°C	177 ~ 218
Chemical structure			
<p>n=0,1,2,3,4 more than</p> <p>The chemical structure shows a repeating unit of a polyurethane chain. It consists of three benzene rings. The first and third rings are substituted with an isocyanate group (-NCO) at the para position. The second ring is enclosed in brackets with a subscript 'n', indicating it is a repeating unit. Each benzene ring is connected to the next by a methylene group (-CH₂-). The overall structure is: OCN-C₆H₄-CH₂-[C₆H₄-CH₂]_n-C₆H₄-NCO.</p>			

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4. Packaging

Cosmonate PM-35 uses 250kg drum Package

5. Safety and Health

Skin contact might cause rash or inflammation and eye contact might cause severe pain and excessive exposure might cause sight disorder. Also, if you inhaled MDI steam, it would cause bronchial asthma, headache, difficulty to breathing, and etc, and in case of taken, it will cause stimulation and inflammation of digestive organs. If contacted with skin, wash out with much water or soapy water. If contacted with eyes, wash out with much water or soapy water for about 15 minutes and get medical examination. Also, if you inhaled MDI steam, move to the fresh area, keep warm stabilized, and practice artificial respiration when it's necessary. If swallowed, feed much water or milk, or raw egg and make them throw up, then get medical examination as soon as possible. It has very rare ignition danger, but watch out for fire hazard if digested, carbonic acid gas digestion is suitable. In case of conflagration, put out with water.

6. Storage and Handling

PM-35's proper keeping temperature is 15~35°C. Be extremely cautious so that water does not get mixed in storage instrument and seal the instrument with dry nitrogen gas. In case of working with MDI, wear the proper safety tools. If necessary, install ventilation equipment or wear gas mask. After work, be certain to wash with soapy water and clean the contaminated overalls before you wear it.