

Product Documentation

Product Name : **COSMONATE PM-60**

Kumho Mitsui Chemicals Co.,

COSMONATE PM-60

-Technical Data Sheet-

1. characteristics of product

Cosmonate PM-60 is special modified MDI that is used in various car interior parts such as IN-panel and arm rest. Cosmonate PM-60 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 application



Vehical in-panel

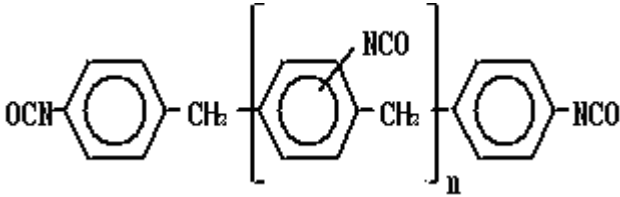


arm rest

Cosmonate PM-60 is special modified MDI that is used in making semi-hard polyurethane foam that is essential for producing car interior parts such as In-panel, arm rest and console box. It has mild flow of raw material and is advantageous in making complicated mold. Due to its high qualified solidification and stripping features, it reduces hardening time of the ultimate product.

COSMONATE PM-60

3. Product standards & general properties

item	evaluation	Unit	Result
Product specifications			
NCO content	ASTM D 1638	wt%	27.0 ~ 28.0
Viscosity (25°C)	ASTM D 1638	cps	350 ~ 650
specific gravity (25°C)	ASTM D 1638	-	1.20 ~ 1.24
General Properties			
Product Exterior			Brown Liquid
Freezing point		°C	below -10°C
evaporation(25°C)		mmHg	ignorable level
ignition point		°C	177 ~ 218
molecular weight		g/mol	240 ~ 260
chemical structure			
			
Over N=0,1,2,3,4			

COSMONATE PM-60

4. product packaging

Cosmonate PM-60 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-60's proper keeping temperature is 20~35°C. Be extremely cautious so that water doesn't 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.