## Characteristics

•Capable of obtaining thin (less than several dozen  $\mu$ m ), flexible and strong film after coating on release paper and evaporating the solvent

•Capable of controlling perfomances such as durability and hardness by resin composition adjustment, and of providing products according to application

•ME series : semi-non-yellowing PU, suitable for thin film formation and mainly used for skin materials •NE series : non-yellowing PU, suitable for thin film formation and mainly applicable to skin materials

requiring discoloration-resistanceCU series : for wet processing

•UD series : adhesives for ME/NE series

## Polyol composition and various performances

Various performances of Polyurethane resin (PU) are affected by the polyol composition of raw material. Chart on the right shows the performance comparison of our yellowing / semi-non-yellowing PU. Non-yellowing PU has inferior oil resistance tendency.

Polyols	Heat resistance	Oil resistance	Cold resistance	Flex resistance	Hydrolysis resistance	Chemical resistance
Polyester	good	good	good	good	fair	poor
Polyether	fair	fair	excellent	excellent	excellent	good
Polycarbonate	excellent	good	fair	good	excellent	good

## Representative Products

Application	Туре	Polyols	Product name
		Polyester	ME-3134LPNS
		Folyester	ME-3612NS
	Yellowing / semi-non-yellowing	Polyether	ME-8105LP
		Folyether	ME-8115LP
		Polycarbonate	ME-8210NS
Skin layers (one -component type for		rolycarbonate	ME-8220NS
film materials)		Polyostor	NE-302HV
		Folyester	NE-308
	Non-yellowing	Polvether / Carbonate	NE-8855-20N
		Folyether / Carbonate	NE-8883HV
		Dolycarbonato	NE-8811
		Folycarbonate	NE-8850
		Delvester	CU-4104E
		Polyester	CU-4340NS
Materials for wet processing	Malla isa /	Polyether	CU-8438NS
(porous layer formation) (one -component type for	semi-non-yellowing	Polvether / Carbonate	CU-8511NS
film materials)			CUS-1500
		Polycarbonate	CU-8614NS
		1 olycarbonate	CU-9443M
Adhesives (one -component type for hot melt)	Yellowing	Polyester	UD-1305NS
	Vallouring	Polyostor	UD-660SA
Adhesives			UD-750SA
film materials)	reliowing	Polyether	UD-8310NTT
		Polyether / Carbonate	UD-8373BL

 $\ast\,$  It is also possible to design a biomass-based polyure thane. Polyurethane resin

## Application

- Applicable to synthetic leather (application example: seat for automobiles, furniture, clothing, shoes, etc.)
- •Applicable to industrial materials (application example: marking film, polishing pad, etc.)