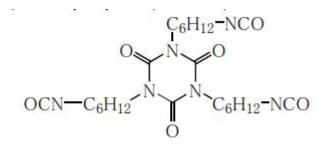
HDI trimer AsahiKasei TPA-90SB

Type:

Aliphatic Polyisocyanate (HDI Trimer)



Features:

- # High NCO content
- # Lower viscosity
- # Good coated film appearance
- # Good weather resistance
- # Low residual monomer

Applications:

- # Two-component applications
- # Plastic coatings
- # Auto refinish coatings
- # Automobile, motorcycle ; base coat and top coat
- # Heavy duty coatings

Typical properties:

Appearance	Colorless to slightly yellowish clear
	liquid
Non-volatile	90 wt%
Solvent	Solvent naphtha (petroleum),light
	arom. / Butyl acetate=1/1
NCO content	20.9 wt%
Viscosity	310 mPa⋅s at 25 $^{\circ}$ C
Color value	< 1 (Gardner)
NCO equivalent weight	Approx.201
Flash point	60 ℃
Density at 20 $^\circ\!\mathrm{C}$	1.13

These values provide general information and are not part of the productspecifications.

Stability/ thinnability:

DURANATETM TPA-90SB can be thinned with esters, ketones and aromatic.hydrocarbons such as ethyl acetate, butyl acetate, methoxypropylacetate(PMA), methylethyl ketone, methyl-butyl ketone, cyclohexanone, toluene, xylene, Solvesso #100 andmixture thereof. Generally speaking, it has good compatibility with the solventmentioned. However, the solutions formed must be tested for their storage stability.Only PU grade solvents can be used (max. 0.05% water, absence of reactive groupssuch as hydroxyl or amines groups). Aliphatic hydrocarbons such as hexane.cyclohexane, methylcyclohexanes and mineral spirits, are unsuitable as solventsbecause of their poor solubility.

Aromatics	Toluene	+
	Xylene	+
0	Solvesso#100	+
Esters	Ethyl acetate	+
	n-Butyl acetate	+
Ketones	Methyl ethyl ketone	+
	Methyl iso-butyl ketone	+
Ether-esters	Methoxypropylacetate	
	(PMA)	+
Aliphatics	Cyclohexane	~
	Methylcyclohexane	~
	Mineral spirit	~

^{+ ;} Soluble, ~ ; Insoluble

DURANATETM TPA-90SB should not be thinned to below a solid content of 40%.Prolonged storage of solution with lower solid content may result in turbidity and sedimentation.

Compatibility:

With polyisocyanates		Resin solution	
	24A-100	+	
	22A-75PX	+	
	21S-75E	+	
	TKA-100	+	
	MFA-75X	+	
	TSA-100	+	
	TSS-100	+	
	TSE-100	~	
	E402-90T	+	
	E405-80T	+	
	D101	+	
	D201	+	
VESTANAT	T1890L	+	
	T1890E	+	
Desmodur	Z4470	+	

+;	Soluble,	~;	Inso	luble
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With polyols an	nd other resins	Resin solution	Dried film
Acrydic	A801	+	+
10 A	A801-P	+	+
	A851	+	+
	50-257	+	+
Halwemer	F-45	+	+
Hypomer	FX-2050	+	+
8.53	FX-3070	+	+
Setalux	1198	+	+
	1753	+	+
Lumiflon	LF-100	+	+
	LF-200	+	+
	LF-400	+	+

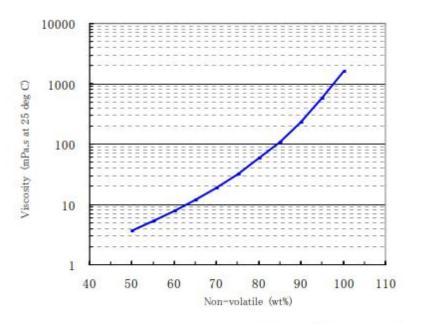
+ ; Soluble, ~ ; Insoluble + ; Transparent, ~ ; Hazy

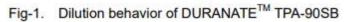
Mixing ratio of DURANATETM TPA-90SB with polyols is based on NCO/OH equivalentratio of 1/1.

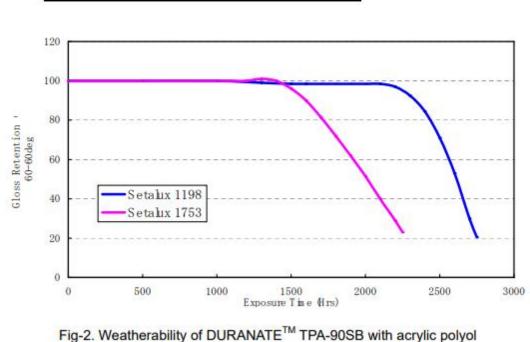
Storage:

DURANATETM TPA-90SB is sensitive to moisture and should therefore always bestored in sealed containers.

Characteristics of viscosity







Weatherability

Weatherability by Super-Xenon Weathermeter

Fig-2. Weatherability of DURANATE TPA-90SB with acrylic polyol Polyol; Setalux 1198 & 1753 (Nuplex Resins) Weathered by Super-Xenon Weathermeter

Packaging:

200KG/drum Please fasten the packaging cover as soon as possible after original packaging to prevent the mixing of other substances such as moisture and other substances that may affect the performance of the product. Do not inhale dust, avoid skin and mucous membrane contact. Smoking, eating and drinking are prohibited in the workplace. After work, shower and change clothes. Store contaminated clothes separately and reuse them after washing. Maintain good hygiene practices.

E_mail us : <u>info@allhdi.com</u>