

# Isocyanates for foams, adhesives, leather, textile & paper

## Isocyanate monomers for resin synthesis & PU foams

Product name	Chemical name	Isocyanate type	Colour (Hazen or APHA)	Hydrolysable chlorine (ppm)	Total chlorine (ppm)	Assay (%)	Bulk density at 25°C (kg/m <sup>3</sup> )
HDI	Hexamethylene diisocyanate	Aliphatic	≤ 15	< 350	< 1,000	> 99.5	1,050
IPDI	Isophorone diisocyanate	Cycloaliphatic	≤ 30	< 200	< 400	> 99.5	1,058
Scuranate® T80	Toluene diisocyanate (80% 2,4 TDI)	Aromatic	≤ 40	< 70	< 700	> 99.5	1,220
Scuranate® T65	Toluene diisocyanate (68% 2,4 TDI)	Aromatic	≤ 40	< 100	< 1,000	> 99.5	1,220
Scuranate® T100	Toluene diisocyanate (> 99% 2,4 TDI)	Aromatic	≤ 30	< 150	< 700	> 99.5	1,220

## Easaqua™ for waterborne PU formulations

	Viscosity (mPa.s) (1)	NCO (%) (2)	Solids content (approx., %)	Adhesives	Leather	Textile	Paper
Thermally activated grade (emulsion)							
Easaqua™ WT 1000	3,200	9.4**	63***	❖		•	
Self-emulsifiable crosslinkers							
Easaqua™ WAT	4,000	19.0	100	❖			
Easaqua™ WAT-1	1,400	21.7	100	❖			
Easaqua™ X WAT-3*	1,150	21.5	100	❖	❖	❖	❖
Easaqua™ X WAT-4*	4,000	18.6	100	❖	❖	❖	❖

(1) average value at 25°C (2) average value on delivery form \* APEO-free: without nonyl phenol ethoxylate \*\* blocked NCO \*\*\* in water / butyl acetate (35/2)

❖ Recommended • Possible

## Tolonate® for solvent-based & solvent-free PU formulations

	Colour (1)	Viscosity (mPa.s) (2)	NCO (%) (3)	Free Monomer (%)	Solids content (%)	Solvent type	Bulk density at 25°C (kg/m <sup>3</sup> )	Flash point (°C) (4)	Equivalent weight (g) (3)
<b>HDI-biurets</b>									
<b>Standard grade</b>									
Tolonate® HDB	≤ 40	9,000 ± 2,000	22.0 ± 1.0	< 0.3	100	-	1,120	> 120	191
<b>Low viscosity</b>									
Tolonate® HDB-LV	≤ 40	2,000 ± 500	23.5 ± 1.0	< 0.3	100	-	1,120	> 120	179
<b>HDI-trimers</b>									
<b>Standard grade</b>									
Tolonate® HDT	≤ 40	2,400 ± 400	22.0 ± 0.5	< 0.2	100	-	1,160	> 120	191
<b>Low viscosity</b>									
Tolonate® HDT-LV2	≤ 40	600 ± 150	23.0 ± 1.0	< 0.5	100	-	1,131	> 120	182
<b>Blocked isocyanate for heat activated formulations</b>									
Tolonate® D2	≤ 40	3,250 ± 750	11.2*	-	75 ± 2	S	1,060	49	370

(1) Hazen or APHA (2) at 25°C (3) on delivery form (4) in closed cup S aromatic hydrocarbon \* blocked NCO

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