

Aliphatic Isocyanates for coating formulations & resin synthesis

Aliphatic Isocyanates monomers for resin synthesis

	Molecular weight (g/mol)	Colour (Hazen or APHA)	Hydrolysable Chlorine (ppm)	Total Chlorine (ppm)	Assay (%)	NCO (%)	Bulk density at 25°C (kg/m ³)	Vapour Pressure at 20°C (Pa)
HDI	168.2	≤ 15	< 350	< 1,000	> 99.5	approx. 50	1,050	0.22
IPDI	222.3	≤ 30	< 200	< 400	> 99.5	37.5 to 37.8	1,058	0.04

Easaqua™ for waterborne polyurethane formulations

	Viscosity (mPa.s) (1)	NCO (%) (2)	Solids content (average) (%)	Can coatings	Auto-OEM	Glass	Car Refinish / Transportation	Plastics	Wood	Concrete
Emulsion for mono-component (1K) thermosetting formulations										
Easaqua™ WT 1000	3,200	9.4**	63	✚	✚	✚				
Self-emulsifiable polyisocyanates for two-component (2K) formulations										
Easaqua™ WT 2102	4,300	19.0	100				•	✚	✚	•
Easaqua™ X M 501*	1,100	21.6	100		✚		✚	✚	✚	✚
Easaqua™ X M 502*	3,600	18.3	100		✚		✚	✚	✚	✚
Easaqua™ X D 401*	1,050	15.8	85		✚		✚	•	✚	•
Easaqua™ X D 803*	200	12.2	69		✚		✚	✚	✚	✚

(1) average value at 25°C (2) average value on delivery form * APEO-free: without any alkyl phenol ethoxylate ** blocked NCO

✚ Recommended • Possible

Tolonate® for solvent-based & high solids formulations

	Colour (1)	Viscosity (mPa.s) (2)	NCO (%) (3)	Free Monomer (%)	Solids content (%)	Solvent type	Bulk density at 25°C (kg/m ³)	Flash point (°C) (4)	Equivalent weight (g) (3)	
HDI derivatives	Biurets									
	Standard grades									
	HDB	≤ 40	9,000 ± 2,000	22.0 ± 1.0	< 0.3	100	-	1,120	> 120	191
	HDB 75 B	≤ 40	150 ± 100	16.5 ± 0.5	< 0.3	75 ± 1	B	1,050	35	255
	HDB 75 M	≤ 40	250 ± 100	16.5 ± 0.5	< 0.3	75 ± 1	M	1,083	55	255
	HDB 75 MX	≤ 40	250 ± 100	16.5 ± 0.5	< 0.3	75 ± 1	MX	1,067	38	255
	Low viscosity									
	HDB-LV*	≤ 40	2,000 ± 500	23.5 ± 1.0	< 0.3	100	-	1,120	> 120	179
	Trimers									
	Standard grades									
	HDT	≤ 40	2,400 ± 400	22.0 ± 0.5	< 0.2	100	-	1,160	> 120	191
	HDT 90	≤ 40	500 ± 100	19.8 ± 0.7	< 0.2	90 ± 1	SB	1,120	53	212
	HDT 90 B	≤ 40	450 ± 100	20.0 ± 1.0	< 0.2	90 ± 1	B	1,132	48	210
	Fast drying									
X FD 90 B (5)	≤ 60	2,000 ± 1,000	17.4 ± 0.6	< 0.5	90 ± 1	B	1,130	48	240	
Low viscosity										
HDT-LV*	≤ 40	1,200 ± 300	23.0 ± 1.0	< 0.2	100	-	1,160	> 120	183	
HDT-LV2*	≤ 40	600 ± 150	23.0 ± 1.0	< 0.5	100	-	1,131	> 120	183	
For thermosetting formulations										
D2	≤ 40	3,250 ± 750	11.2**	-	75 ± 2	S	1,060	49	370	
IPDI trimers	IDT 70 S	≤ 60	1,830 ± 540	12.3 ± 1.0	< 0.5	70 ± 2	S	1,040	45	342
	IDT 70 B	≤ 60	600 ± 300	12.3 ± 1.0	< 0.5	70 ± 2	B	1,060	29	342

(1) Hazen or APHA

(2) at 25°C

(3) on delivery form

(4) in closed up

(5) only available in Europe

* can also be used in waterborne formulations

** blocked NCO

B = butyl acetate

X = xylene

M = methoxypropyl acetate

S = aromatic hydrocarbon

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