

Product Selection Guide Hauthane Polyurethane Dispersions

Co-solvent free (non-nmp containing) grades

	Type	Solids (% wt)	Tensile (min psi)	Elong (%)	100%Mod (psi)	Comments
HD-2024	AL	45	4000	750	480	Soft, economical
HD-3016	AR	40	4800	200*	3400	Hard, economical aromatic
HD-4664	AL	50	6000	625	800	Soft, good value
HD-4669	AL	40	6300	270*	3600	Very hard, good value
HD-4675	AL	38	5900	190*	4400	Hardest, low co-solvent demand

Hardest grades¹

	Type	Solids (% wt)	Tensile (min psi)	Elong (%)	100%Mod (psi)	Comments
HD-2120	AL	35	8500	35*	NM	Chemical and stain resistant
HD-2117	AL	35	4850	50*	NM	Chemical & early water resistant
HD-2139	AL	33	6000	135*	5700	Very chemical-resistant
HD-2125	AL	35	8000	150*	5200	Alcohol and stain resistant
HD-2504	AL	35	7800	100*	5200	Polycarbonate-based, exterior durable
HD-2503	AL	35	6825	210*	4700	Polycarbonate-based, exterior durable
HD-4675	AL	38	5900	190*	4400	Exterior durable, NMP-free
HD-4669	AL	40	6300	270*	3600	Economical, NMP-free
HD-3016	AR	40	4800	200*	3400	Hard, economical aromatic

Hydroxyl functional grades

	Type	Solids (% wt)	Tensile (min psi)	Elong (%)	100%Mod (psi)	Comments
HD-6000	AL	35	7000	230	4850	W/D isocyanate crosslinkable
HD-6002	AL	35	6500	220*	3900	Polycarbonate-based, W/D isocyanate crosslinkable
HD-6004	AL	35	5500	280*	4000	Solvent free, polyester-based, W/D isocyanate crosslinkable

Most economical grades²

	Type	Solids (% wt)	Tensile (min psi)	Elong (%)	100%Mod (psi)
HD-3016	AR	40	4800	200	3400
HD-4664	AL	50	6000	625	800
HD-2024	AL	45	4000	750	480
HD-4669	AL	40	6300	270*	3600

Most chemical-resistant grades²

	Type	Solids (% wt)	Tensile (min psi)	Elong (%)	100%Mod (psi)	Comments
HD-2120	AL	35	8500	35*	NM	Very hard, vinyl adhesion
HD-2117	AL	35	4850	50*	NM	Fast water resistant development
HD-2139	AL	33	6000	135*	5700	Hard
HD-2125	AL	35	8000	150*	5200	Hard, vinyl adhesion
HD-2107	AL	35	6000	200	3400	Flexibility, abrasion-resistance
HD-4669	AL	40	6300	270*	3600	Most economical

Specialty grades

	Type	Solids (% wt)	Tensile (min psi)	Elong (%)	100%Mod (psi)	Comments
HD-2101	AL	40	5000	500	700	Soft, polyester-based
HD-2334	AL	45	3500	200*	2500	Flame retardant, co-solvent free
HD-2503	AL	35	6825	210*	4700	Hard, polycarbonate-based, exterior durable
HD-2504	AL	35	7800	100*	5200	Hardest, polycarbonate-based, exterior durable
HD-2602	AL	35	6375	300*	3180	Silicone-modified, polyester- based
HD-5002	AL	40	NM	--	--	Very hard, urethane-acrylic hybrid with excellent adhesion to plastic substrates
HD-5004	AL	35	NM	--	--	Hard, urethane-acrylic hybrid suggested for wood substrates

* ASTM method D882-91 for hard polymers - Crosshead speed of 2 in/min vs 20 in/min for other polymers.

¹ Ranked by 100% modulus results.

² Based on chemical spot test results for a variety of solvents, acids, bases and cleaning agents.