

POLYURETHANE DISPERSIONS PRODUCT GUIDE

Lubrizol

Performance Coatings

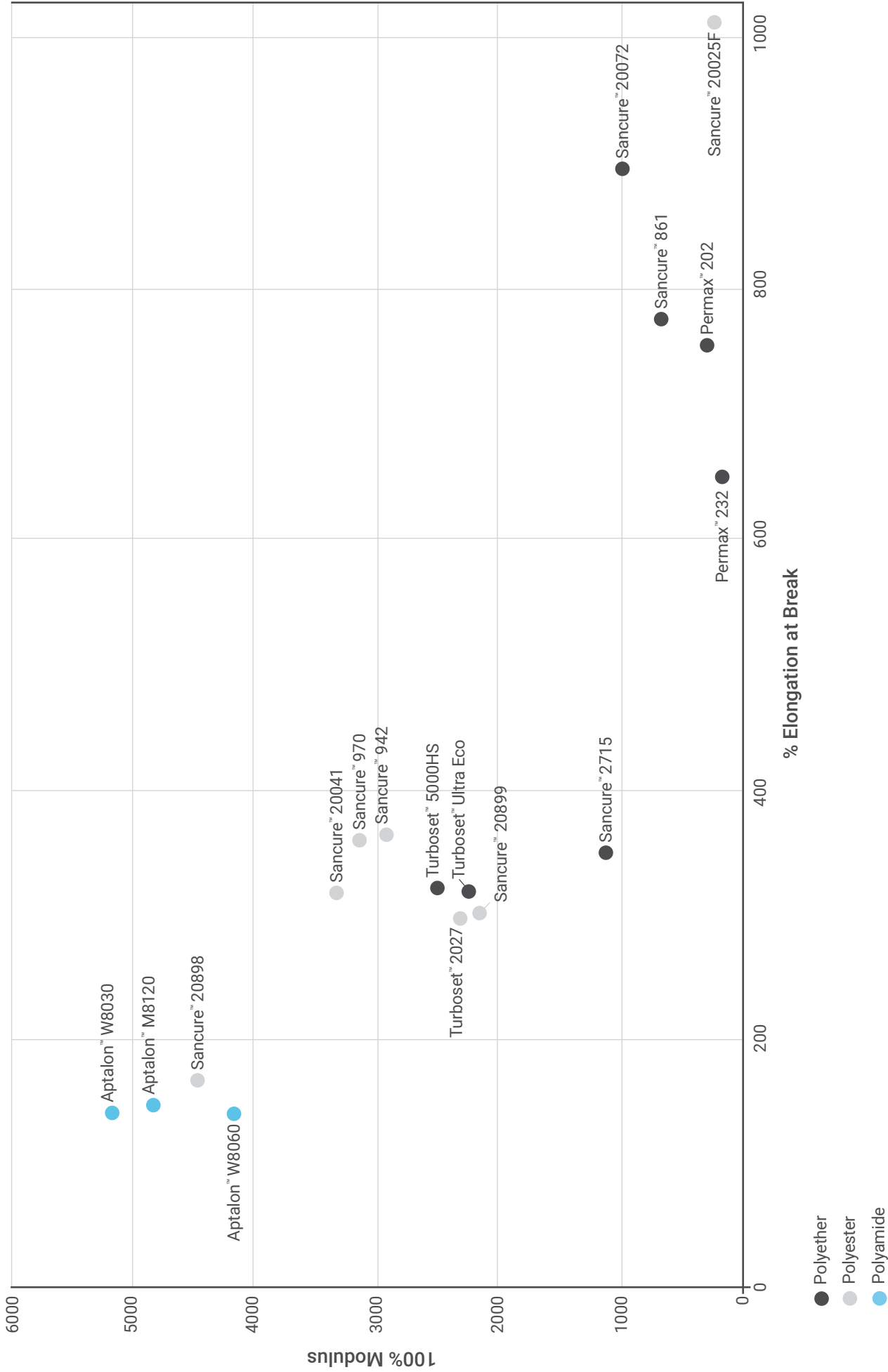
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Lubrizol Polyurethane Dispersions

Product Name	Product Type	% Solvent	% Solids	Specific Gravity	pH	Viscosity in cP	% Amin	100% Modulus PSI (MPa)	Elongation at Break (%)	Sward Rocker Hardness	Freeze Thaw Stability	Thermal Stability 120° F/30 Days	Description/Suggested Uses
Aptalon™ M8120	Polyamide	0	35	1.05	8.5	<500	0.9	*	*	*	*	*	Amide based, self-crosslinking PUD for direct-to-metal applications, excellent adhesion and outstanding topcoat properties. DTM applications as a single coat solution for a variety of protective and industrial applications
Aptalon™ W8030	Polyamide	0	35	1.04	8	<500	0.7	5129 (35.36)	176	*	no	*	Amide based, self-crosslinking, self-matting PUD, low gloss clear and pigmented finishes, high clarity, hardness and resistance properties. Low gloss, high performance wood finishes and metal topcoats
Aptalon™ W8060	Polyamide	0	36	1.05	8	<500	1	4150 (32.68)	140	*	no	*	Amide based, self-crosslinking PUD, balanced properties on a high level, high chemical resistance and low wear. High demanding areas with wooden floors such as sports floors or restaurants
Permax™ 202	Polyether	0	41	*	5.4	1000	0	310 (2.44)	750	*	yes	*	Soft, controlled moisture vapor transmission rates, ionic compatibility. High performance textile coating applications, component of topcoat formulations
Permax™ 232	Polyether	0	35	*	5.4	750	0	160 (1.26)	650	*	yes	*	Very soft, controlled moisture vapor transmission rates, ionic compatibility. High performance textile coating applications, component of topcoat formulations
Sancure™ 861	Polyether	0	40	1.02	7.5	<90	1.3	600 (4.72)	770	21	1 cycle	no	Cosolvent free, abrasion/chemical resistance, hydrolytic stability. Textiles, plastic coatings, metal coatings
Sancure™ 970	Polyester	0	42	1.06	8.4	500	1.4	3100 (24.41)	360	*	no	*	Versatile composite PUD; high wear and chemical resistance. Residential and commercial wooden or mineral substrates, 1 and 2K application (isocyanate or aziridine)
Sancure™ 2715	Polyether	0	38	1.03	8	500	1.4	1100 (8.66)	350	14	3 cycles	no	Cosolvent free, abrasion/chemical resistance, readily crosslinkable, light stable, film former, low VOC, fast property development, medium hard urethane. Textiles, plastic and metal coatings; firms hand, low VOC; tough film with fast property development, medium hard urethane
Sancure™ AU4050E	Acrylic/Polyester	1.05	36	1.05	8	<125	*	*	*	*	*	*	Non-yellowing, excellent chemical, abrasion & scuff resistance. Interior wood finishes, clear and pigmented concrete sealers
Sancure™ 20025F	Polyester	0.02	47	1.05	9.7	500	1.2	300 (2.36)	1100	5	yes	yes	Elastic, durable, crosslinkable, low VOC, cosolvent free, adhesion to nylon and polyester/heat sealable. Textile/nonwoven coatings, tie coats, blend resin to modify elasticity
Sancure™ 20041	Polyester	0	34	1.05	8	150	1.9	3400 (26.77)	330	*	*	*	Low VOC, cosolvent free, hard urethane, good compatibility with acrylic polymers and crosslinkable. Developed for coating of rigid substrates, especially wood. Clear coatings
Sancure™ 20072	Cationic Polyether	0	30	1.025	6	20	0.8	1000 (7.87)	900	*	*	*	Cationic dispersion, non yellowing, crosslinkable, improves jet printing performance. Ink jet printing
Sancure™ 20898	Polyester	3.4	29	1.06	8	<400	1.8	4320 (34.02)	180	48	no	yes	Forms very hard, but flexible coatings with good stain- and chemical resistance, fine particle size, abrasion resistance, high gloss. Anti-graffiti coating, vinyl coating, plastic topcoat
Sancure™ 20899	Polyester	0	35	*	8	<400	1.41	*	*	*	*	*	Clear, flexible and high gloss coatings. Good adhesion to vinyl, wood, paper and plastic substrates
Sancure™ 942	Polyester	0	44	1.06	8	<500	*	3200 (22.06)	275	*	no	*	A versatile polyurethane dispersion for 1K and 2K systems with good mechanical and chemical resistance properties
Turboset™ 5000HS	Polyether	0	50	1.04	7.5	<500	0.9	*	*	*	no	*	High solids, TEA free PUD enabler of low VOC formulations for 1K high traffic floor coatings. Good chemical and wear resistance
Turboset™ Ultra Eco	Polyether	0.04	36	1.04	8.3	250	0.8	2200 (17.32)	330	*	no	*	Ultra low VOC, excellent wear resistance, good chemical resistance, adhesion to multiple substrates incl. solvent borne stains. w VOC floor coatings, 1K, sports floors, high traffic areas

Products are considered 'NMP-free' meaning they have no N-methyl pyrrolidone intentionally used in the formulation, but trace amounts may be detectable from common equipment cross-contamination sources at a level less than 0.1% and typically less than 0.05%. Low VOC systems are defined as systems with <140 g/l via US EPA Method 24, <75 g/l EU Method. *Not yet measured.

Mechanical Properties



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Lubrizol Performance Coatings is a market-driven innovator of specialty chemicals for coatings, inks and composites. Our portfolio of resin, binder, dispersant, wax additive and specialty additive technologies solves challenges across a wide range of markets and applications. Formulators choose Lubrizol to benefit from our innovative technologies, customer collaboration and global reliability. More than just a supplier, we are a valued partner with extensive experience in surface protection, dispersion, adhesion and barrier properties. We work closely with customers to enhance the performance, productivity and sustainability benefits of their products and drive new opportunities for market success.



Performance Coatings

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