



# POLYURETHANE DISPERSIONS PRODUCT GUIDE

***Lubrizol***

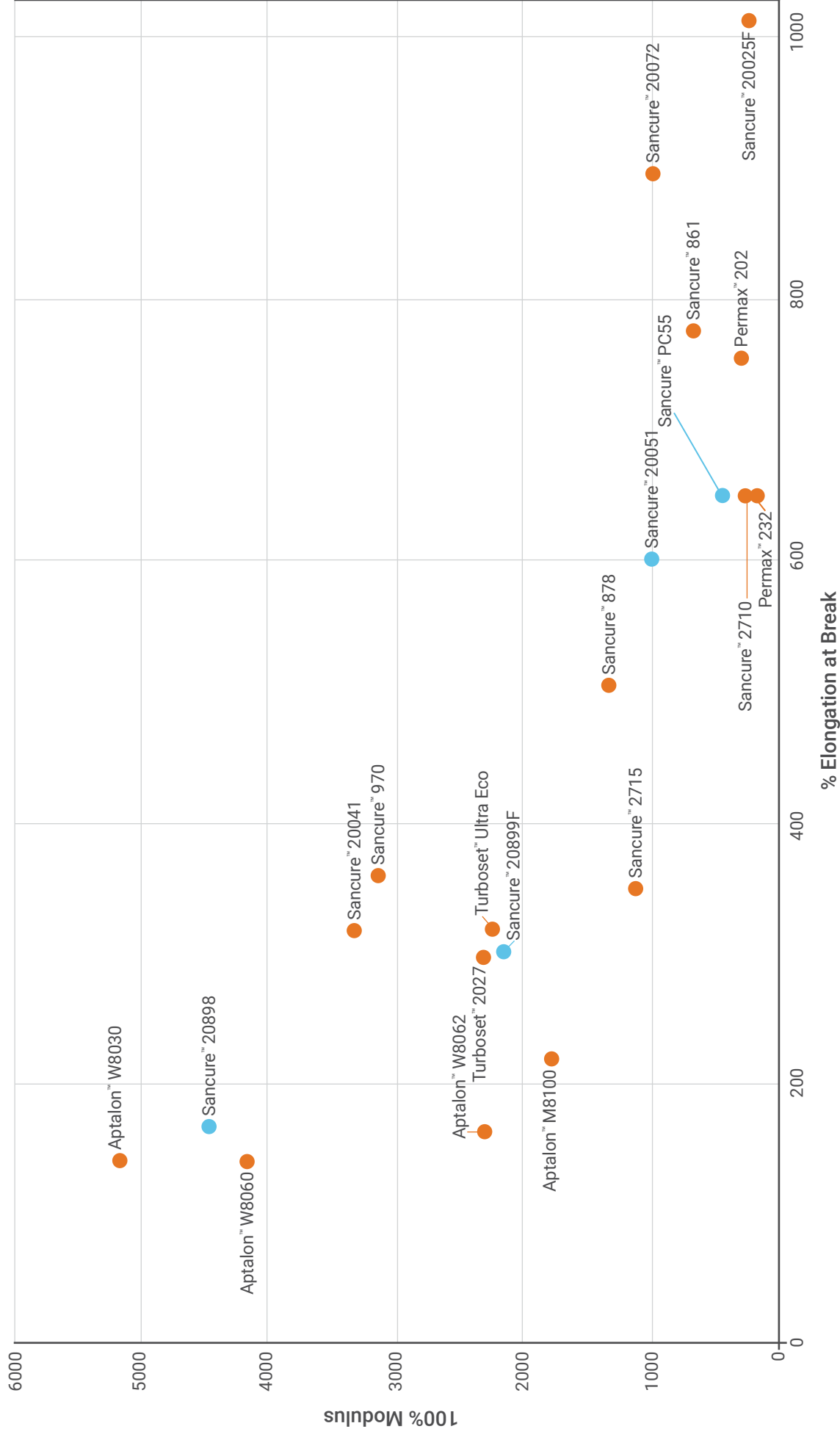
**Performance Coatings**

[www.lubrizol.com/coatings](http://www.lubrizol.com/coatings)

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™ M8100	Polyamide	0	37	1.04	8	<500	0.9	1724 (13.57)	227	*	*	*	Amide based, self-crosslinking PUD, high hydrolysis resistance, chemical resistance. Exterior (metal) top coats, thermal cured DTM, applications with high corrosion resistance requirements
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
Aptalon™ W8062	Polyamide	0	36	1.04	8.3	<500	1.8	2370 (16.34)	184	*	No	*	Amide based, self-crosslinking PUD, low VOC capable, high chemical, abrasion and wear resistance. High performance wood flooring applications, including sports floors
Aptalon™ 8080HS	Polyamide	0	50	1.05	7.5	<500	1.3	*	*	*	No	*	Amide based, high solids, self-crosslinking PUD, high clarity, hardness and resistance properties. High performance, thicker film build clear wood finishes
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™ PC55	Polycarbonate/Polyester	5.6 (NEP)	42	1.06	8	350	1.2	400 (3.15)	650	*	*	*	Soft tactile feel, needs to be crosslinked for resistance against OEM specification. Interior automotive and consumer electronic equipment, plastics in general
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™ 878	Polyether	0	38	1.03	7.5	<100	1.4	1300 (10.24)	500	14	3 cycles	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™ 2710	Polyether	0	40	1.02	8	1000	1.3	650 (5.12)	580	6	1 cycle	No	Cosolvent free, abrasion/chemical resistance, readily crosslinkable, light stable, film former. Textiles, plastic coatings, metal coatings
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™ AU-4050	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™ 20051	Cationic Polyether	0	42	1.02	6	60	4	1000 (7.87)	600	*	*	*	Cationic dispersion, can be crosslinked, chemical and abrasion resistance, Textile, paper, leather and nonwoven
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™ 20137	Polyester	9.8	30	1.09	9	50	1.5	*	18	34	yes	yes	Chemical resistant, flame retardant, readily crosslinkable. Top coat, flame retardant finish
Sancure™ 20137	Polyester	9.8	30	1.09	9	50	1.5	*	18	34	yes	yes	Chemical resistant, flame retardant, readily crosslinkable. Top coat, flame retardant finish
Sancure™ 20898	Polyester	7.6	32	1.06	8	<250	1.9	4320 (34.02)	180	48	yes	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™ 20899F	Polyester	8.2	35	1.06	8	700	1.9	2100 (16.54)	300	38	yes	yes	High gloss, chemical/UV resistance, easily crosslinkable, adhesion. Vinyl coatings, plastic coating, paper coating
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



# Lubrizol Locations

## **NORTH AMERICA**

Lubrizol Advanced Materials, Inc.  
9911 Brecksville Road  
Brecksville, OH 44141 USA  
+1.888.234.2436

## **EUROPE**

Lubrizol Deutschland GmbH  
Max-Planck-Str. 6  
27721 Ritterhude Germany  
+49.421.69333

## **ASIA-PACIFIC**

Lubrizol Specialty Chemicals  
(Shanghai) Co., Ltd  
10/F, Park Center International  
No. 1088 Fang Dian Road  
Shanghai 201204, PR China  
+8621.3866.0366

## **SOUTH AMERICA**

Lubrizol do Brasil Aditivos Ltda  
Avenida Nove de Julho, 3653  
Jardim Paulista  
Sao Paulo – SP  
01407-000  
+55.11.4097.0250

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**

Lubrizol Advanced Materials, Inc. ("Lubrizol") hopes that you have found the information provided helpful, but you are cautioned that this material, including any prototype formulas, is for informational purposes only and you are solely responsible for making your own assessment of appropriate use of the information. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAWS, LUBRIZOL MAKES NO REPRESENTATIONS, GUARANTEES, OR WARRANTIES (WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE), INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR REGARDING THE COMPLETENESS, ACCURACY, OR TIMELINESS OF ANY INFORMATION. Lubrizol does not guarantee how the materials referenced herein will perform in combination with other substances, in any methods, conditions, or processes, with any equipment, or in non-laboratory environments. BEFORE COMMERCIALIZATION OF ANY PRODUCT CONTAINING THESE MATERIALS, YOU SHOULD THOROUGHLY TEST SUCH PRODUCT, INCLUDING HOW THE PRODUCT IS PACKAGED, TO DETERMINE ITS PERFORMANCE, EFFICACY, AND SAFETY. You are solely responsible for the performance, efficacy, and safety of any products you manufacture. Lubrizol shall not be liable, and you shall assume all risk and responsibility for, any use or handling of any material. Any claims may not be approved in all jurisdictions. Any entity making claims related to these products is responsible for complying with local laws and regulations. Nothing contained herein is to be considered as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner, and it is your sole responsibility to determine if any issues related to patent infringement of any component or combination of components relating to the information provided exists. You acknowledge and agree that you are using the information provided herein at your own risk. If you are dissatisfied with the information provided by Lubrizol, your exclusive remedy shall be to not use the information.