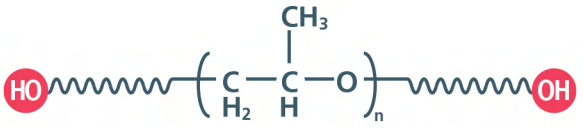
PREMINOL™

Polyol Grades

PREMINOL™ polyether polyols are ultra-low unsaturated value polyols that increase the chemical and mechanical properties in Coatings, Adhesive, Sealant, and Elastomer (CASE) applications and provide added value to the final product.



Typical Properties of PREMINOL™

Product	Functionality	OH Content (mg KOH/g)	Molecular Weight	Viscosity (mPa-s at 25°C)	EO addition	Unsaturation (meq/g)
PREMINOL™ 5001F	2	25.5 - 30.5	4,000	950	Yes	≤ 0.030
PREMINOL™ S 4008F	2	13.0 - 15.0	8,000	3,000	No	≤ 0.010
PREMINOL™ S 4013F	2	8.8 - 10.3	12,000	7,000	No	≤ 0.010
PREMINOL™ S 4318F	2	5.7 - 6.7	18,000	20,000	No	≤ 0.010
PREMINOL™ 7001K	3	25.6 - 30.4	6,000	1,400	Yes	≤ 0.030
PREMINOL™ S 3011	3	15.8 - 17.8	10,000	3,000	No	≤ 0.010
PREMINOL™ 7012	3	15.0 - 18.0	10,000	3,000	Yes	≤ 0.030
PREMINOL™ S 3015	3	10.5 - 12.5	15,000	6,500	No	≤ 0.010
PREMINOL™ S 6075	6	42.0 - 48.0	7,500	1,200	No	≤ 0.010
PREMINOL™ S 6420	6	7.0 - 9.5	42,000	20,000	No	≤ 0.010

* Grades listed above are those marketed and sold in the US. Other grades are available upon request.
* The physical properties shown above are typical values and should not be construed as specifications.

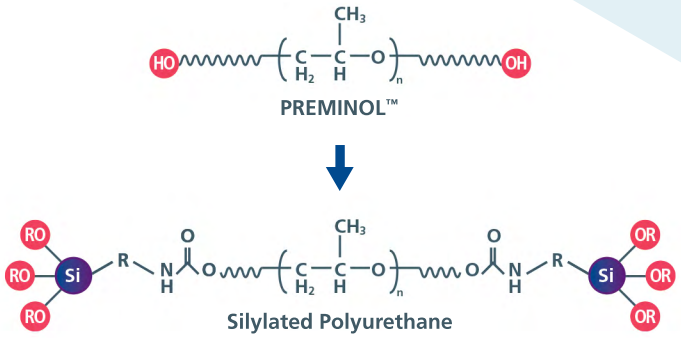
Performance Advantages

- Good mechanical properties
- Good durability and workability
- Fast curing
- Environmentally friendly
- High flexibility and low viscosity

Selection Guide in Silylated Polyurethane Applications

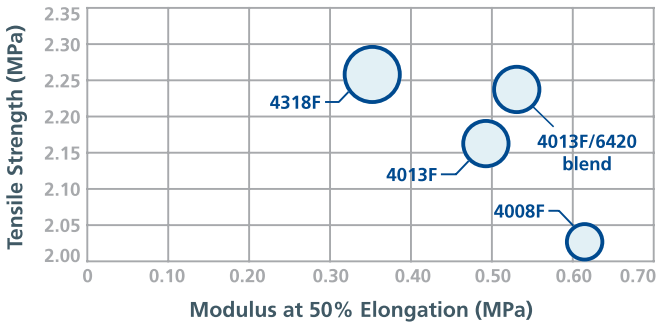
Target Performance	Recommended Products
Low viscosity, low modulus	S 1004F, S1005F
High flexibility	S 4013F, S 4318F
High strength	S 3011, S 3015, 7001K*, 7012*
High modulus, fast curability	S 6075, S 6420

* EO capped grades enable shorter production time due to high reactivity with isocyanate silane

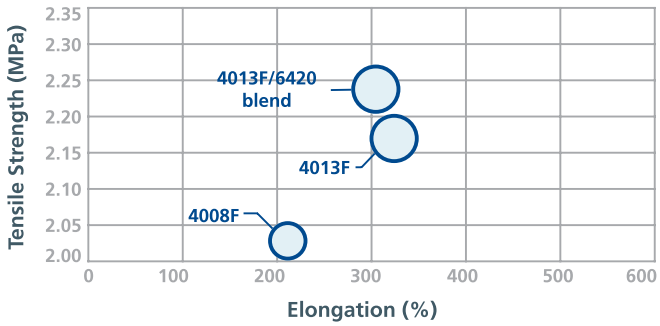


Physical Properties

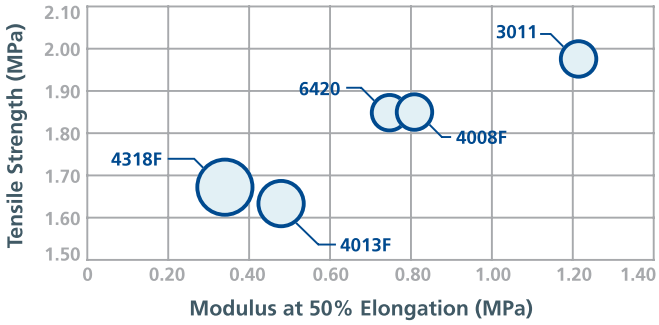
Strength vs. Modulus (amino-silane endcapper)



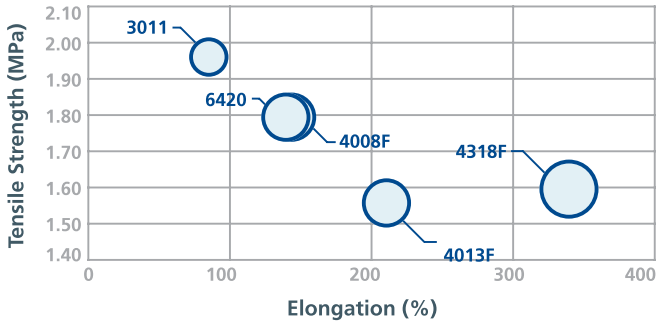
Strength vs. Elongation (amino-silane endcapper)



Strength vs. Modulus (iso-silane endcapper)



Strength vs. Elongation (iso-silane endcapper)



Model formulation used in the study: polymer/plasticizer/filler/others: 25%/22%/47%/6%, **Curing condition:** 23°C/50% RH for 21 days, **Test:** ASTM D-412

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