

Polybutadiene PU prepolymers

Adhesives, coatings, encapsulants

- Excellent hydrophobicity
- Adhesion to a variety of substrates
- Hydrolytic stability
- Resistance to aqueous acids and bases
- Low-temperature flexibility
- Low moisture vapor transmission rates



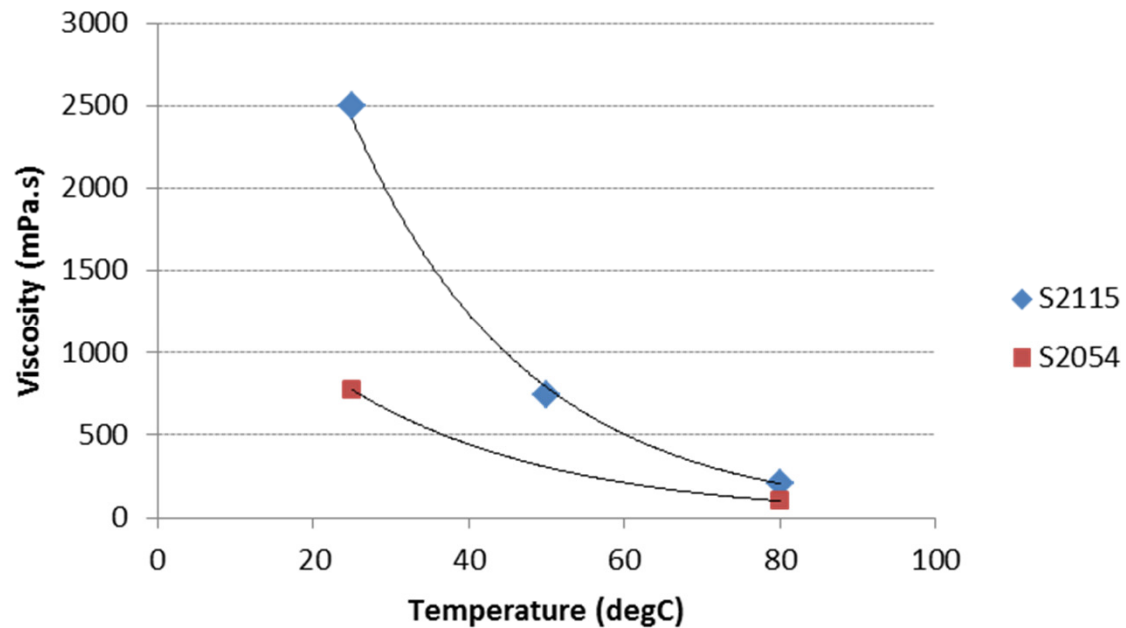
Product portfolio

	SUPRASEC® 2110	SUPRASEC® 2115	SUPRASEC® 2119
Appearance	yellow liquid	yellow liquid	yellow liquid
NCOv (%)	10	15	19
Viscosity at 25 °C (mPa.s)	7500	2500	1070
Solvent	free	free	free
Functionality (av.)	2.1	2.1	2.1
Cold storage stability	> 5 °C	> 5 °C	> 5 °C

Evaluation in Polyurea

Spray: visc/T relation ship

- Evaluation of S2119 in polyurea and comparison to a standard system based on S2067
- The amine blend was based on D2000/T5000/D400/DEDTA and a secondary amine chain extender



Evaluation in Polyurea

Physico-mechanical properties

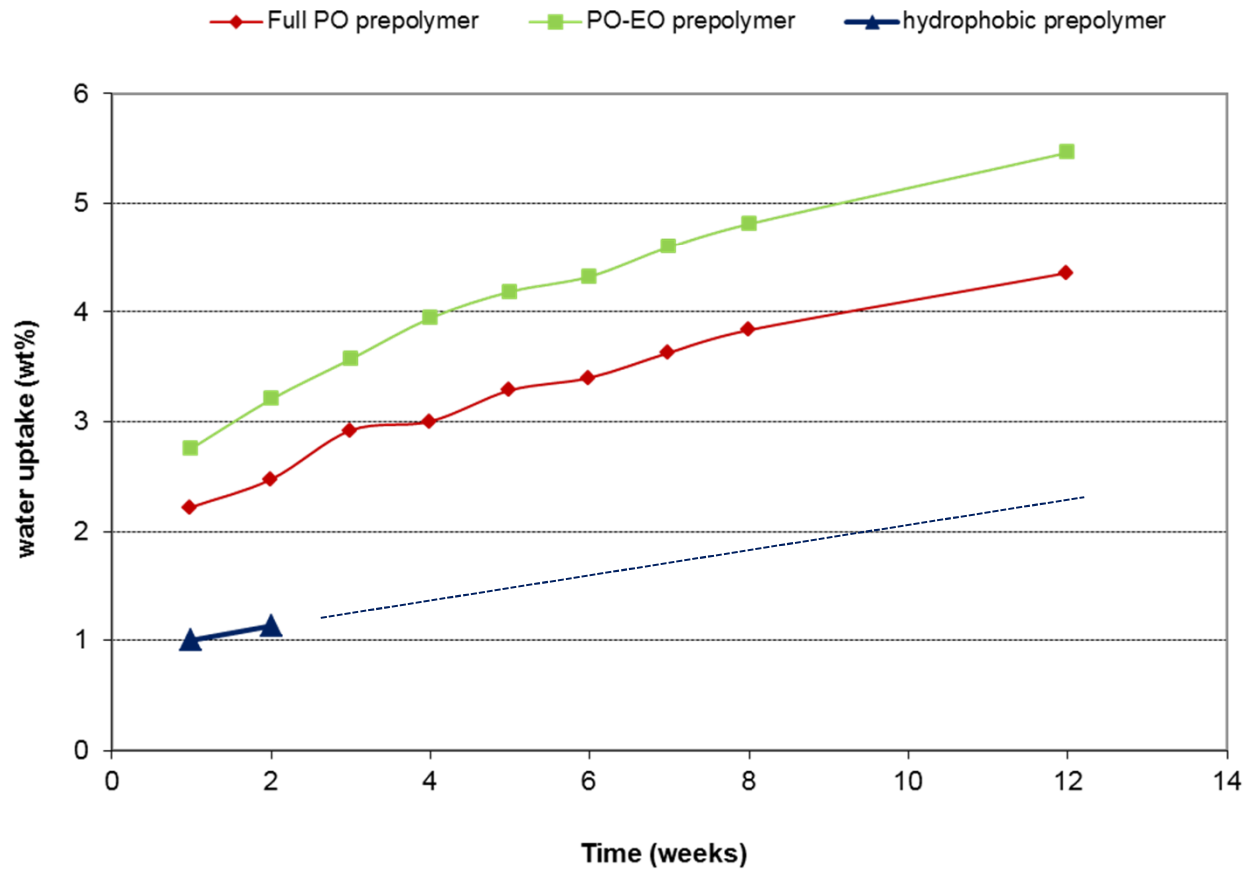
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	PUA (< S2067)	PUA (< S2119)
Shore D	54	58
Tensile strength@ max load (MPa)	23.5	19.5
Tensile strength@ break (MPa)	23.4	19.4
Elongation@ max load (%)	185	229
Elongation@ break (%)	185	229
Angle tear (N/mm)	86	98
Taber abrasion (mg)	95.2	112.8

Evaluation in Polyurea

Water uptake

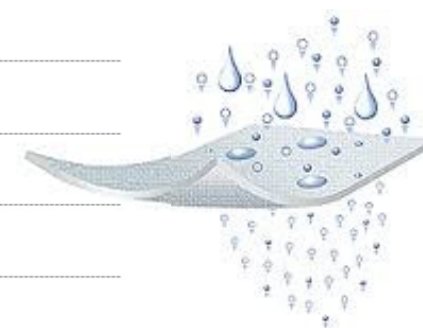
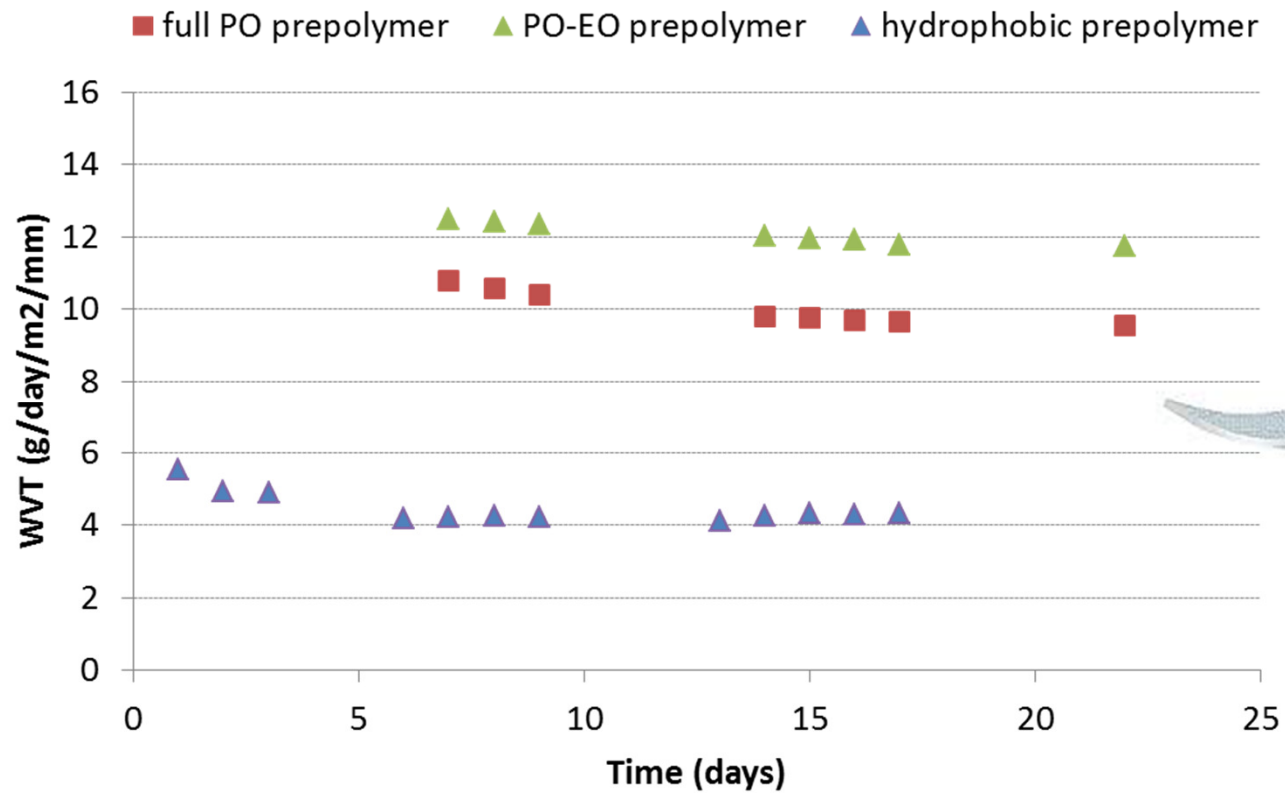
Gravimetric assessment, 25 deg C



Reduced water uptake characteristics

Evaluation in Polyurea WVT

Gravimetric assessment, 25 deg C



Reduced water vapour transmission