

CALPRENE H6182S

SEBS for elastic nonwoven applications



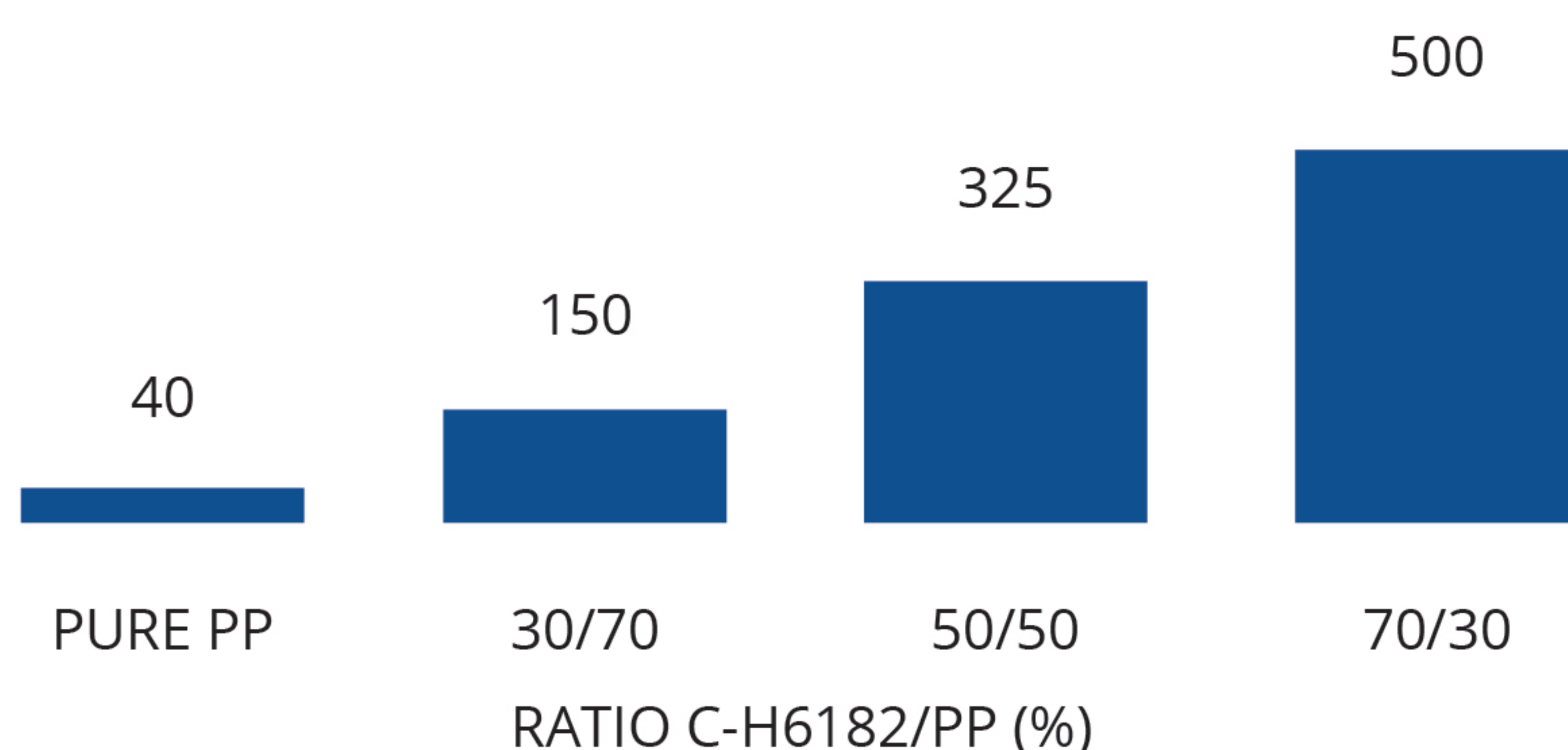
Nonwovens that are based in PP do not have good elastic properties. For this reason, Dynasol has developed a new SEBS to be used in nonwovens made by meltblown and spunbond processes

This material has excellent compatibility with PP, giving typical nonwovens high elasticity and stretchability and nice soft touch. Its flowability is high enough to be extruded in a nonwoven machine in combination with PP, feeding both materials directly into the extruder.

Calprene H6182 Properties	Test Method	Value
Melt flow rate (230°C/2.16kg) g/10min	ASTM D1238	10
Volatile matter, %	ASTM D5668	<0.5
Total styrene (on non-hydrogenated polymer), %	MA 04-3-062	15
Hardness, ° Shore A	ASTM D2240	50
Saturation, %	NMR	>99%
Yellowness Index, max	ASTM E313	3

Example of meltblown nonwoven (40gsm) with different SEBS/PP ratios.

Elongation at break (%)

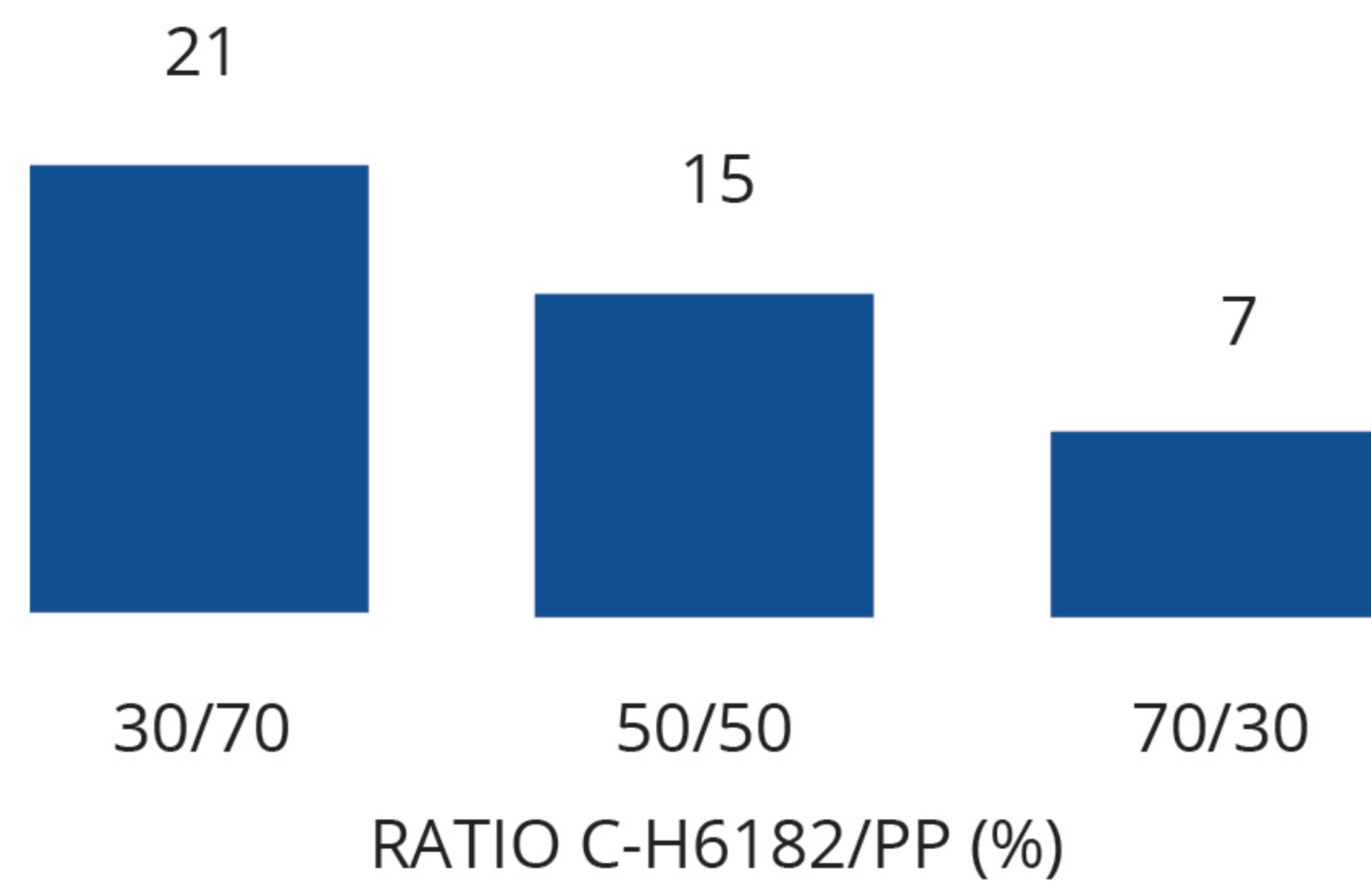


Tensile test conditions:

Sample size: 250 x 50 mm
Elongation velocity: 100 mm/min
Initial distance between jaws: 100 mm

Example of meltblown nonwoven (40gsm) with different SEBS/PP ratios.

Hysteresis @50%: PERMANENT SET, %

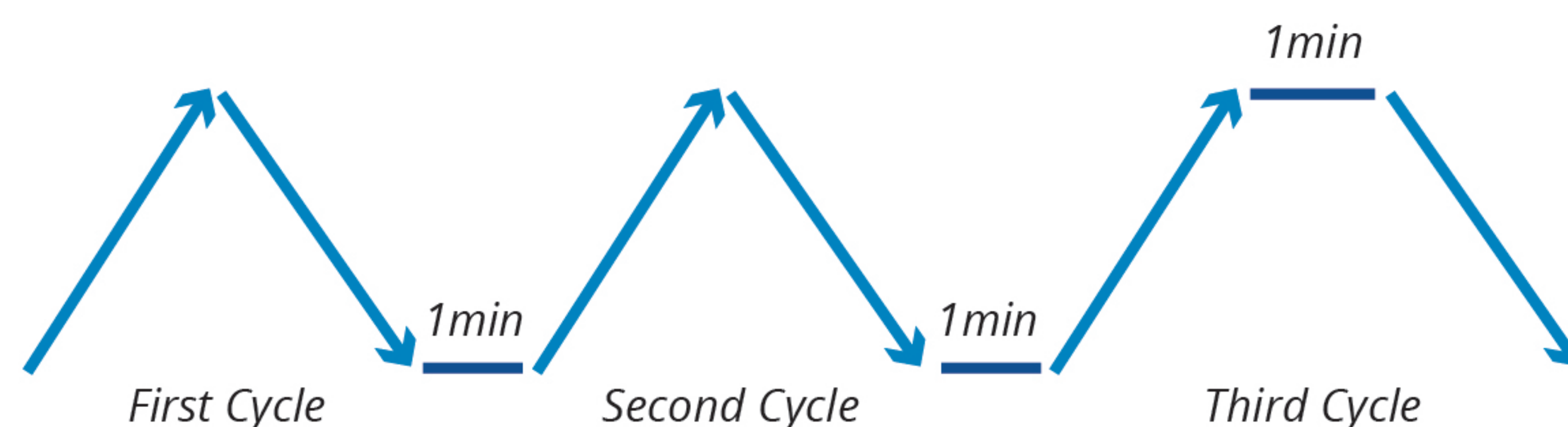


Hysteresis test conditions:

Sample size: 250 x 50 mm
Distance between jaws: 100 mm
Elongation velocity until 50%: 50 mm/min
Loading-unloading cycles to measure recovery force.



Profile of Hysteresis Cycles



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dynasolgroup.com
marketing.dynasol@dynasol.com

Dynasol Group Houston

14340 Torrey Chase Blvd Suite #365
Houston, TX 77014
Phone: (281)-874-0888
Toll Free: 1 877-559-7568
Fax: (281) 885-1742

Dynasol Group Madrid

Titán 15, 9th Floor
28046 Madrid, Spain
Phone: (34) 900 103 239
Fax: (34) 913 238 352