

**Asahi Kasei Chemicals Corporation Synthetic Rubber Division**

Elastomer Sales Dept. 2

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## S.O.E.™ S1611 & L609 (Trial grade) Grades for low rebound cross-linked foam, having excellent cross-linking property with ethylene based materials (EVA or EOR)

- S.O.E.™ S1611 & L609 can easily be melt blended with ethylene based materials (EVA or EOR) as their melt viscosity is designed to be lower than L605, the conventional grade.
- S.O.E.™ S1611 & L609 enhance the property of S.O.E.™/EVA blend as their cross-linking rates are designed closer to that of ethylene based materials, compared to the conventional grade.

**Table: Composition & property of S.O.E.™/EVA blend foam**

		S.O.E.™		
		S1611	L605 (Trial grade)	L609 (Trial grade)
Compo- sition	S.O.E.™S1611	50		
	S.O.E.™L605		50	
	S.O.E.™L609			50
	EVA	50		
	Additive agent (Cross-linking agent, foaming agent, filler)	≒ 10		
Specific gravity		0.30		
Property	(a) Productivity, Uniform foaming performance	Good	Fair	Good
	(b) Tear strength (N/cm)	140	100	120
	(c) Peel strength (N/cm)	31	24	28
	(d) Compression set (%) 70°C	25	35	30
	(e) Anti-abrasion resistance (William abrasion method)	Excellent	Good	Excellent
	(f) Resilience (Ball-drop test)	18%	12%	12%
Feature		Unlikely to become rigid at low temperature	—	Excellent low-rebound characteristic

Recommended application: automobile, electric appliance, OA apparatus, audio component, vibration-damping for shoes, insulation, sound absorption.

*\*Trial grade S.O.E.™ L611 has been commercialized and its name has changed to S.O.E.™ S1611 as of Oct. 2010.*

Figure 1: Comparison of melt viscosity of S.O.E.™L605 and low-viscosity grades, S1611 & L609

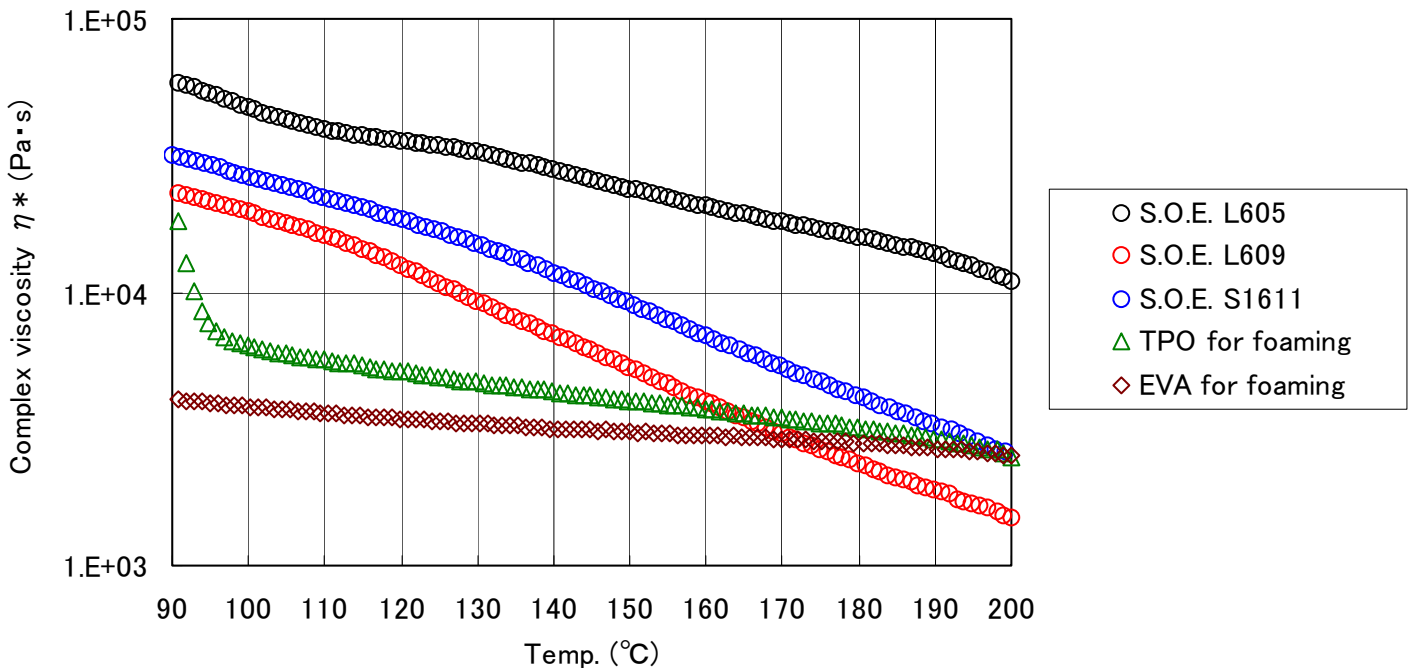
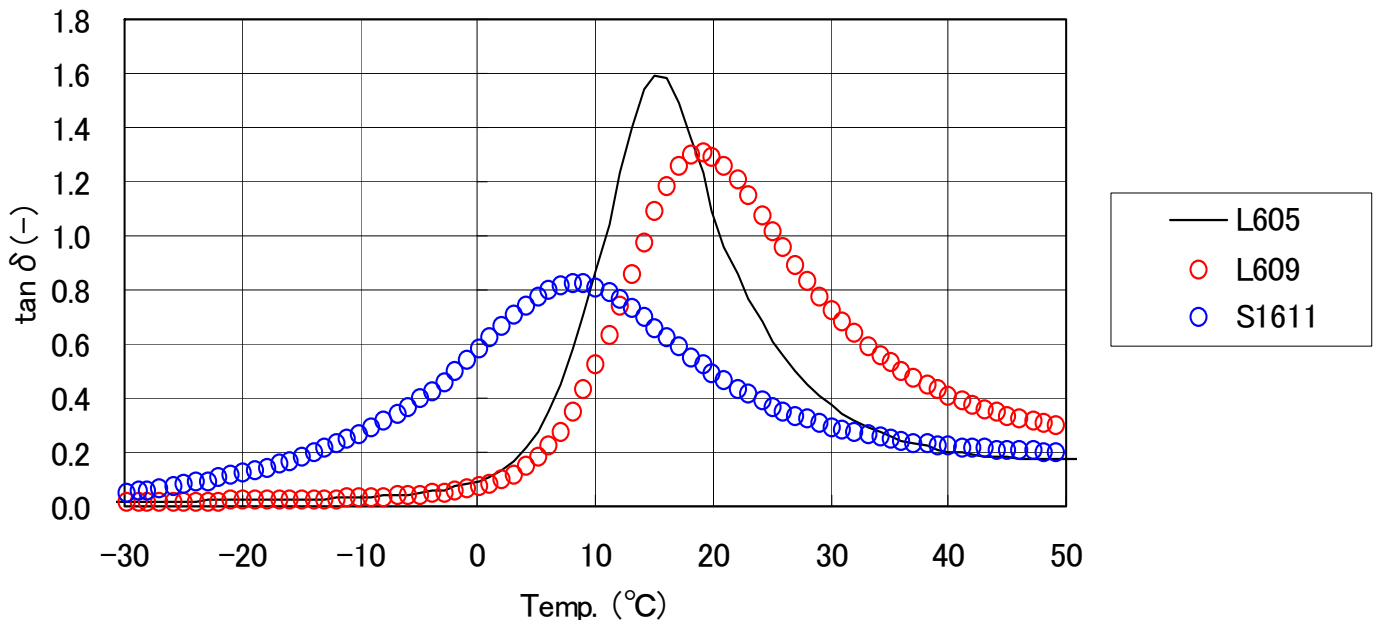


Figure 2: Comparison of Tan δ curve of S.O.E.™L605 and low-viscosity grades, S1611 & L609



All data and values based on specific test methods, and given for basic reference only and not as any warranty or specification. Applications shown for illustration only, and represent no warranty of suitability or non-infringement of intellectual property rights. Note: L605, L609, and L611 are trial grades under development. Thus, their specification may be changed without notice, and they may not be commercialized. The product of Asahi Kasei Chemicals shown herein must not be used for any medical device or drug, except with its express written consent.

\*Trial grade S.O.E.™ L611 has been commercialized and its name has changed to S.O.E.™ S1611 as of Oct. 2010.

S.O.E.™ is a trademark of Asahi Kasei Chemicals Corporation.

