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S.O.E.™ L609 & L611 (trial grades) Grades for low rebound cross-linked foam, having excellent cross-linking property with ethylene based materials (EVA or EOR)

- S.O.E.™ L609 & L611 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.™ L609 & L611 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.™ (Trial grades)		
		L609 (Low-viscosity grade)	L611 (Low-viscosity grade)	L605 (Conventional grade)
Compo- sition	S.O.E.™L609	50		
	S.O.E.™L611		50	
	S.O.E.™L605			50
	EVA	50		
	Additive agent (cross-linking agent, foaming agent, filler)	≒ 10		
Specific gravity		0.30		
Property	(a) Productivity, Uniform foaming performance	Good	Good	Fair
	(b) Tear strength (N/cm)	120	140	100
	(c) Peel strength (N/cm)	28	31	24
	(d) Compression set(%) 70°C	30	25	35
	(e) Anti-abrasion resistance (William abrasion method)	Excellent	Excellent	Good
	(f) Resilience (Ball-drop test)	12%	18%	12%
Feature		Excellent low-rebound characteristic	Unlikely to become rigid at low temperature	—

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

Figure 1: Comparison of melt viscosity of S.O.E.™L605 and low-viscosity grades, L609 & L611

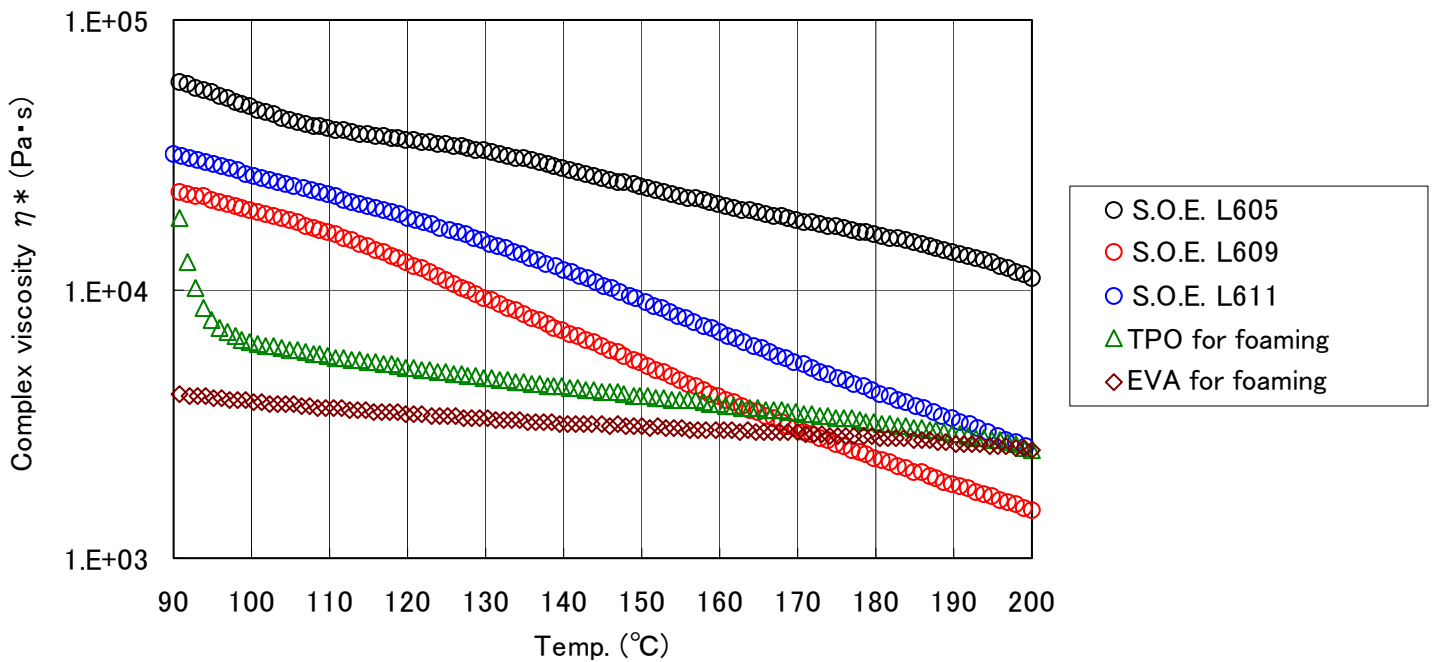
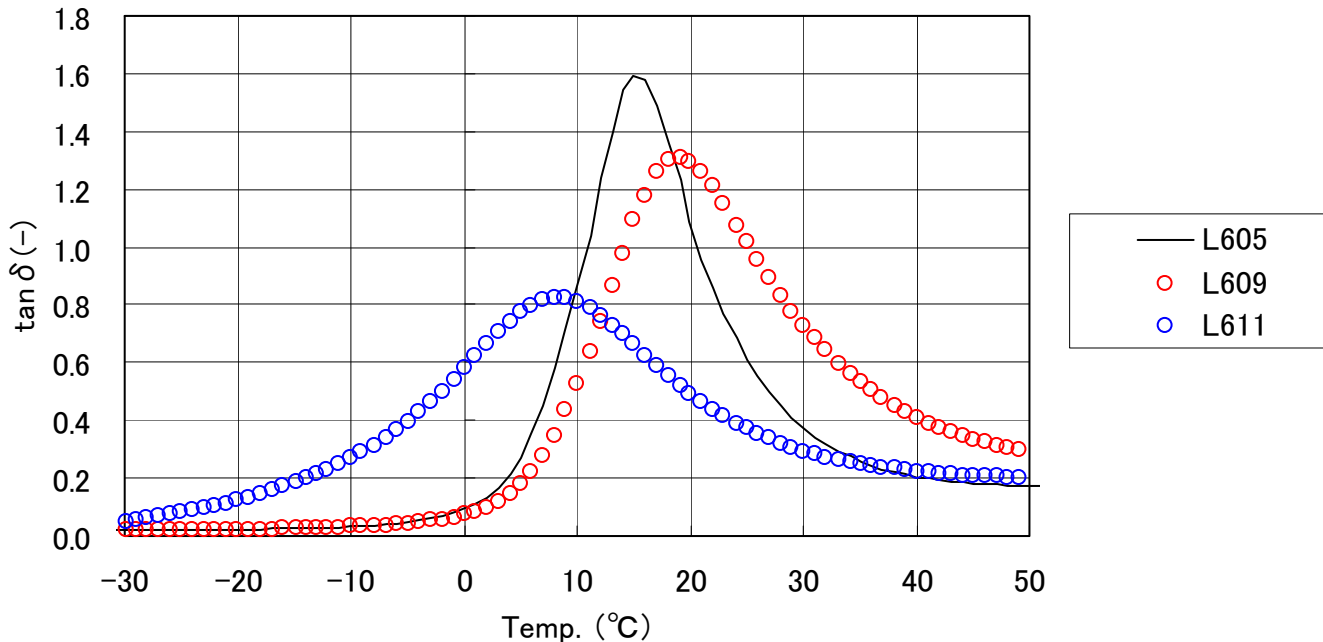


Figure 2: Comparison of Tan δ curve of S.O.E.™L605 and low-viscosity grades, L609 & L611



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.

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