Hydrogenated styrenic thermoplastic elastomer / Tuftec™ , S.O.E.™

Various performance is improved by incorporating Tuftec™ and S.O.E.™ in resin compounds for molding.

Low temperature impact modifier for PP

❶ Challenge
- Impact strength of PP at low temperature

❷ Insight
- Modify by formulating SEBS

❸ Result
- Elongation & brittle temperature improvement

Product Features

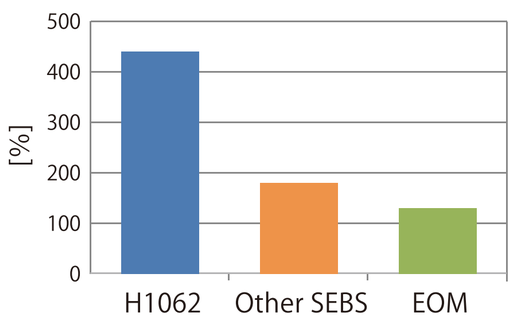
Tuftec™ H1062 can improve impact strength, elongation and brittle temperature of PP.

Brittle temperature of PP compounds with SEBS

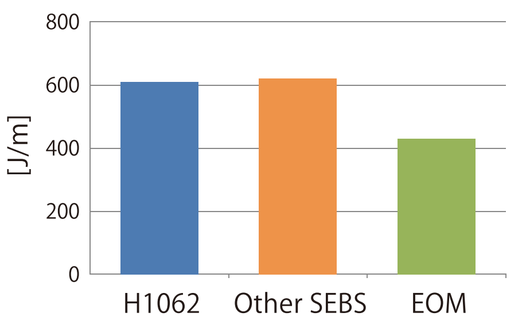
	H1062	Other SEBS	EOM※
Brittle temp.(℃)	-32.3	-27.8	-17.4

Formulation：b-PP（MFR-30 g / 10 min）/ Elastomer / Talc = 65/15/20）
Compounding condition：cylinder temp.：210℃
Injection molding conditions：cylinder temp.：230℃, mold temp.：40℃
Injection time：10 sec, cooling time：30 sec
※）EOM：Ethylene/octene copolymer

Elongation of PP compounds



Izod impact strength of PP compounds



State of Progress

Early Stages of Development — Development Completed

Vibration reducing material

❶ Challenge
- Vibration and noise

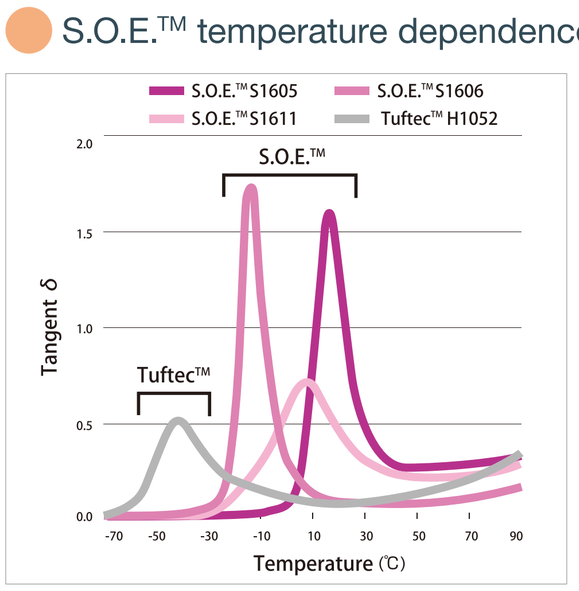
❷ Insight
- Use of S.O.E.™

❸ Result
- Vibration and noise reduction

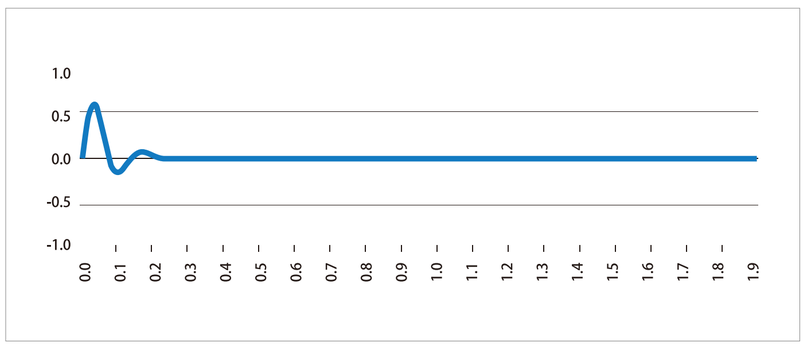
Product Features

S.O.E.™ shows excellent vibration absorption property mainly around room temperature.

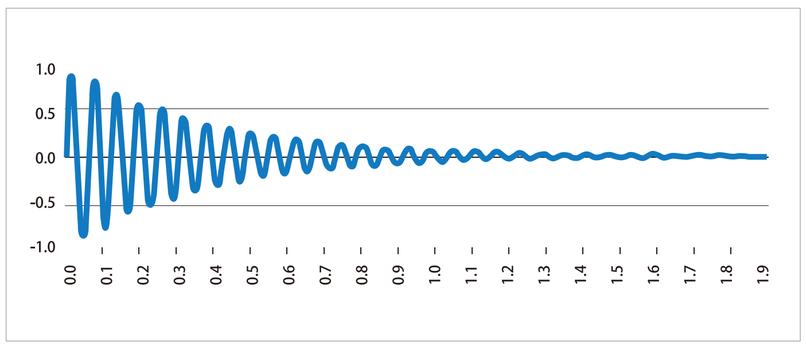
S.O.E.™ temperature dependence of tangent δ



Vibration-damping behavior of S.O.E.™ S1605



Vibration-damping behavior of Tuftec™ H1052



State of Progress

Early Stages of Development — Development Completed