

PP/EOR Modification using SEPTON™

Elastomer R&D Dept.
Elastomer Division

Experiments

Material

PP	Homo-PP, MFR=20 g/10 min (230 deg. C, 2.16 kg)
Ethylene-Octene Rubber (EOR)	ENGAGE™ 8200 (DOW Inc., MFR=5 g/10 min (190 deg. C, 2.16 kg), 0.87 g/cm ³)
HSBC	SEPTON™ 8006 (SEBS), SEPTON™ 4055 (SEEPS), SEPTON™ 1020 (SEP), SEPTON™ 4030S* (SEEPS)

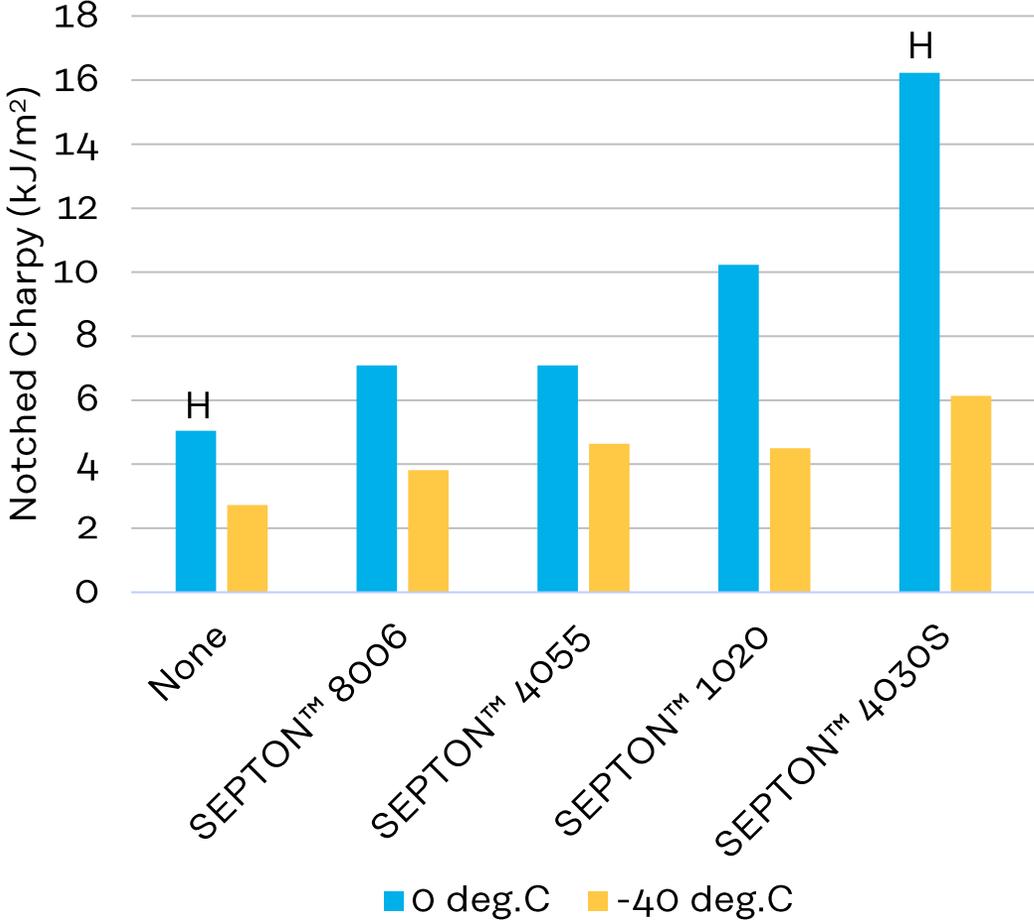
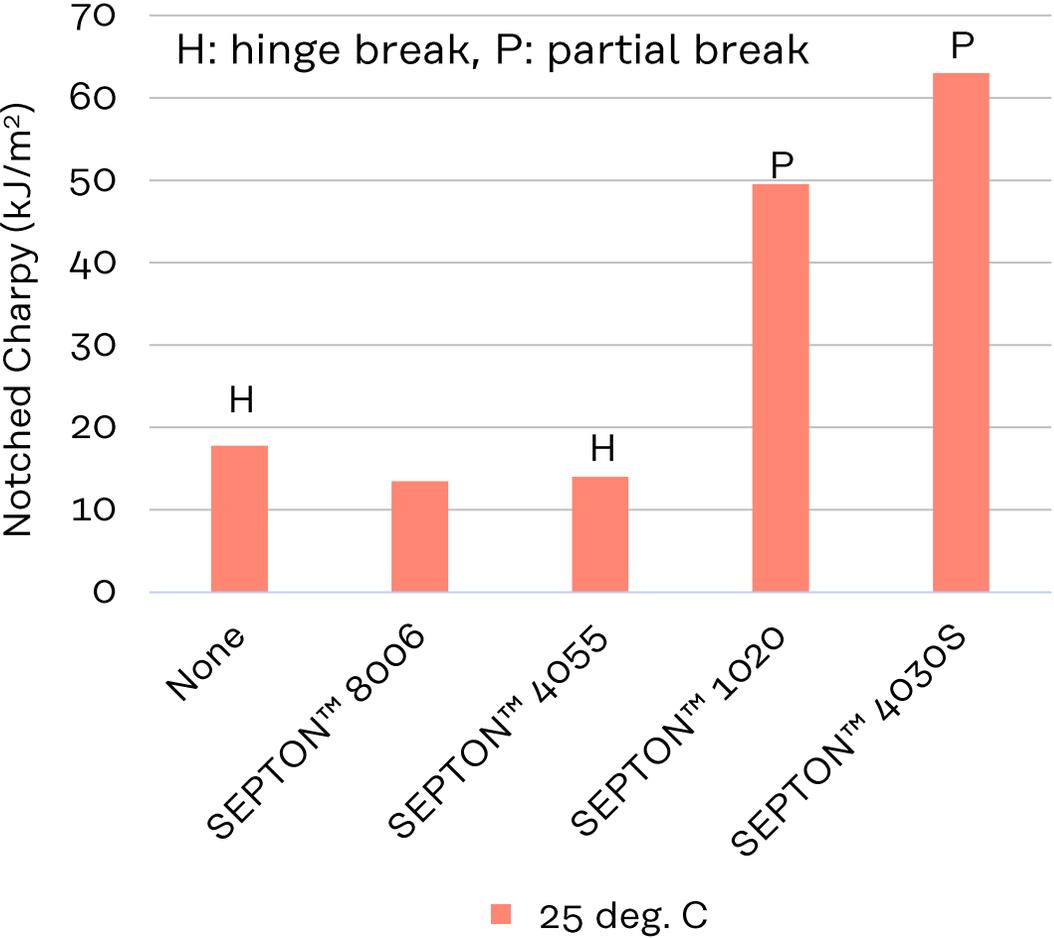
Formulation

None	PP/EOR (64/36, by wt)
Modified	PP/EOR/HSBC (64/16/20, by wt)

MFR of formulations

	HSBC	None	SEPTON™ 8006	SEPTON™ 4055	SEPTON™ 1020	SEPTON™ 4030S
MFR (g/10 min, 230 deg. C, 2.16 kg)		16.4	5.9	4.7	9.1	10.4

Impact Resistance at Room Temperature and Low Temperature



SEPTON™ 1020 and 4030S improve the impact resistance of PP/EOR.

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