

**Daramic
HP
(High
Performance)**

The separator
that raised
the standard.



Performance to meet the demands of the modern automotive battery.

Owing to market demands, automotive battery manufacturers required a separator suited for advanced battery designs such as expanded metal technology, higher under-hood temperatures, increasing processing speeds, longer warranty periods and ever-increasing vehicle power demands.

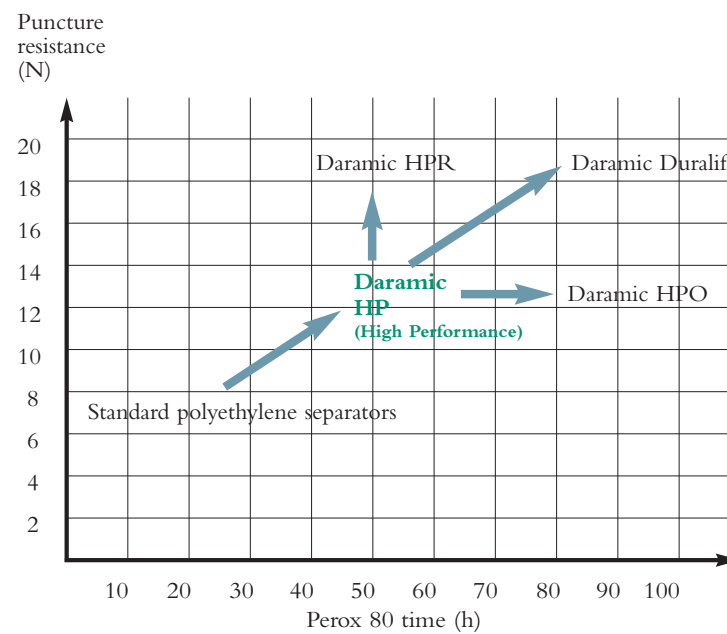
Daramic HP separators help manufacturers meet those demands.

Daramic HP consists of an ultra-molecular weight polyethylene with excellent puncture and oxidation resistance, amorphous silica for high porosity and a specially formulated oil that also helps improve oxidation resistance. At backweb thicknesses down to 0.150 mm, Daramic HP provides higher puncture and oxidation resistance than standard polyethylene separators. Lower separator electrical resistance is also achieved at the lower backweb thicknesses.

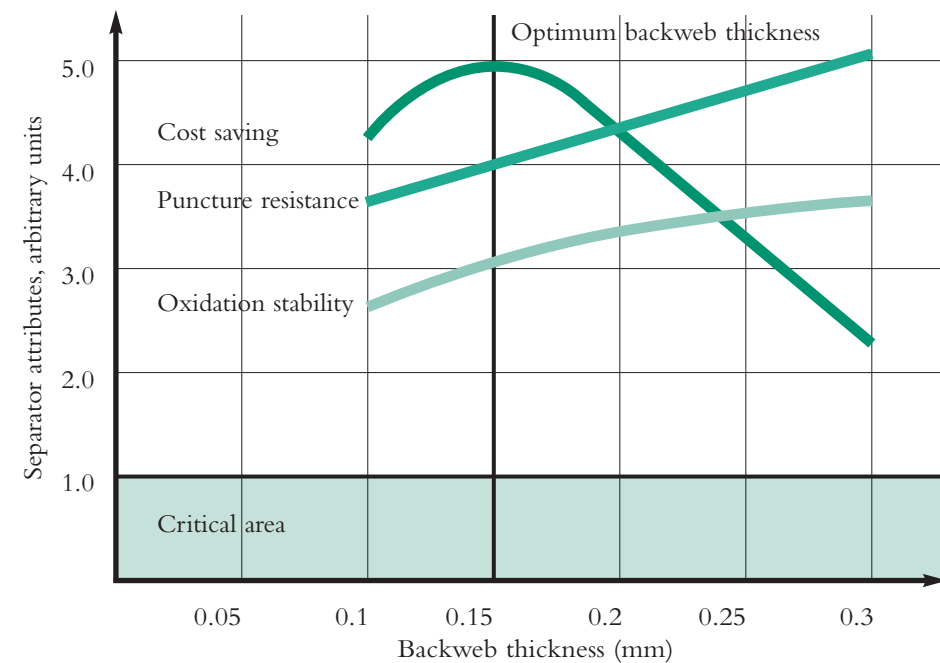
Daramic HP can improve yields, lower scrap rates, lower the risk of battery failures, particularly at elevated temperatures, and improve overall electrical performance. For heavy duty applications, Daramic HP is also available with glass mat.

For exclusive applications, premium formulations (Daramic HPO, HPR and Duralife) are available.

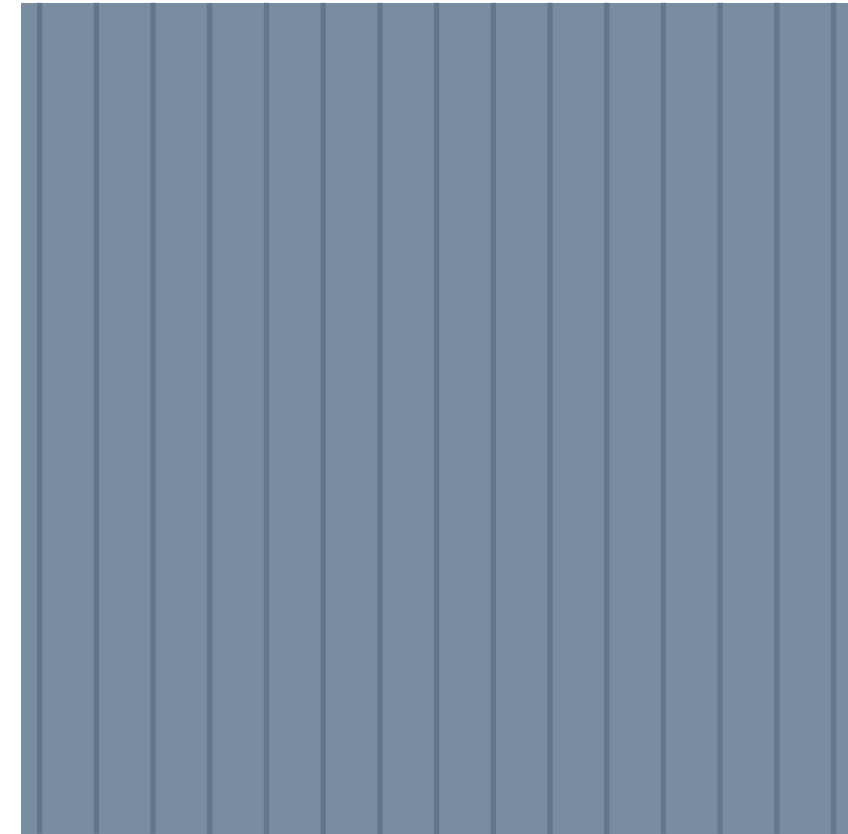
Relative puncture strength and oxidation stability of the Daramic family of battery separators.



Daramic HP provides the opportunity to optimise cost, puncture resistance and oxidation stability at low backweb thicknesses.



Daramic HP 200 – typical values			
		Daramic	Daramic HP
Backweb thickness	µm	200	200
Puncture resistance	N	7.5	13
Oxidation stability - CMD elongation after	%	min. 50 20h PEROX	min.100 20h PEROX
Electrical resistance	mΩcm ²	55	55
Porosity	%	60	60
Elongation CMD	%	350	350
Backweb oil	%	11-12	11-12
Total oil	%	14-17	14-17
Moisture content	%	3	3
Dimensional stability	%	-0.5	-0.5



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