

ECO-FLEX RTPV

Thermoplastic rubber

Combining ease of processing and cost-efficiency



ECO-FLEX RTPV

A new choice for automotive rubber parts

ECO-FLEX RTPV combines the performance characteristics of rubber, such as flexibility and anti-skid, with the processing ease of conventional thermoplastic materials.

ECO-FLEX RTPV delivers cost savings of 30-50% as well as the value-added benefit that TPVs offer over thermoset rubber in recyclability while increasing the "green" content of the vehicles.

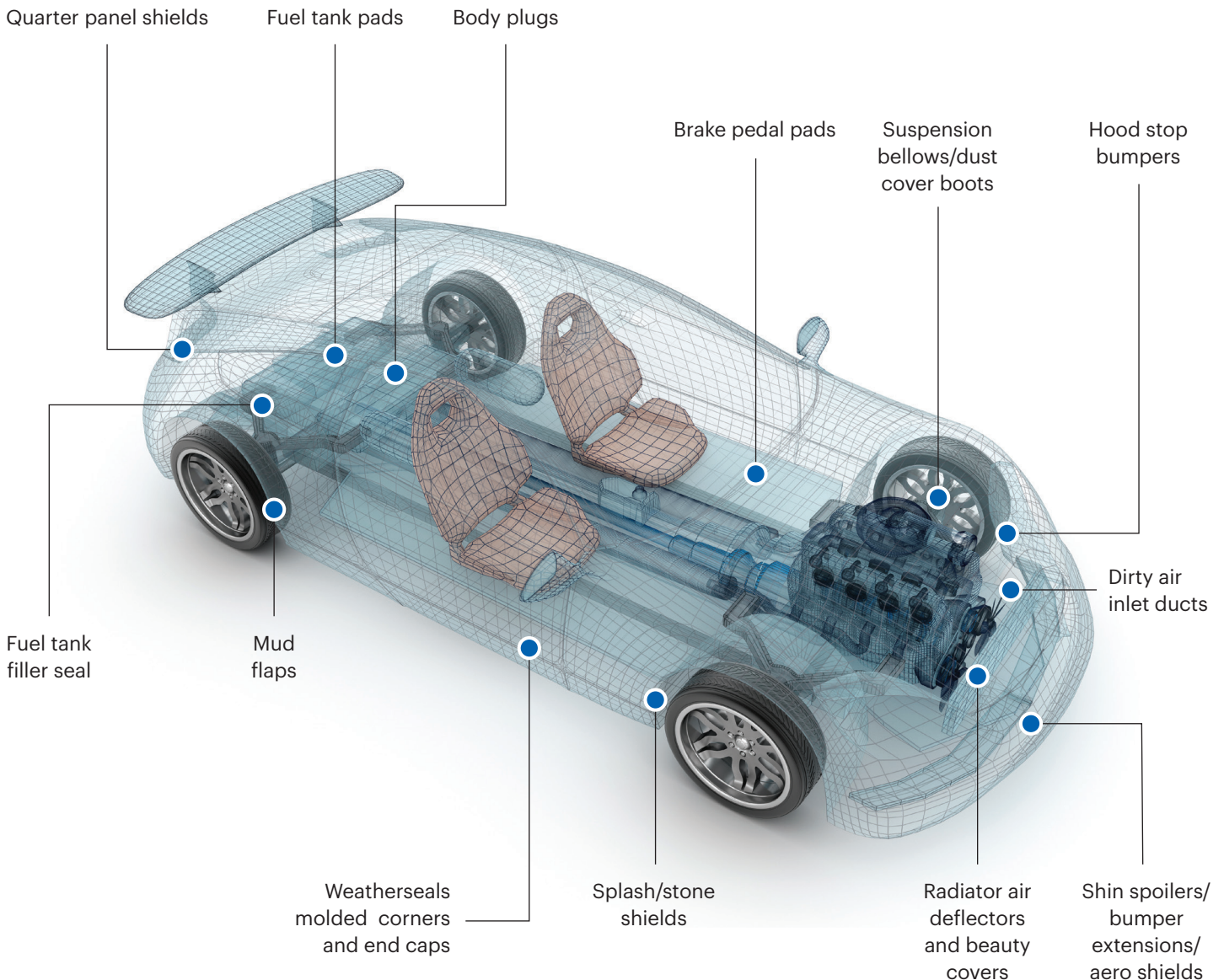
Target applications:



Bumpers, grommets, gaskets



Radiator beauty covers



ECO-FLEX RTPV benefits

The following value-added benefits of ECO-FLEX RTPV grades offer new opportunities to design and material engineers:

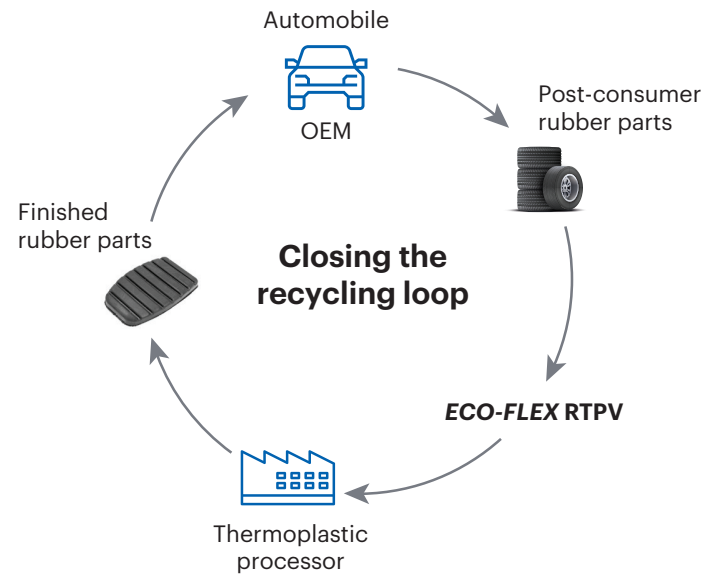
- Lower part cost: 30-50%
- Lower part weight: 20-40% lower SG than SBR/EPDM rubber
- Enhanced design flexibility: overmolds to PP and PE, heat welding
- Increased “green” content (recycled rubber content)
- Increased recyclability (thermoplastic)

Cost/performance comparison brake pedal pad

PROPERTY	VIRGIN SBR	ECO-FLEX RTPV
Hardness, Shore A	80	80
Wear Test	Pass	Pass
Specific Gravity	1.4	1.02
Tread Weight, g	80	57
Cycle Time, sec	180	50
Scrap Rate, %	15	<1
Finish Part Cost, \$ per Pad	0.87	0.55



Brake pedal pads



Bumper extensions/shin spoilers



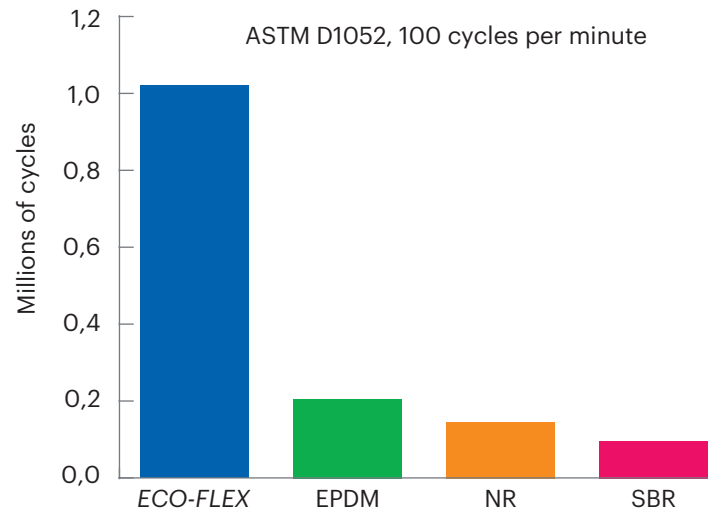
Mudflap



Suspension bellows/
dust covers

The superior flex fatigue resistance of ECO-FLEX RTPV makes it an excellent choice for suspension bellows and dust cover boots.

ECO-FLEX RTPV Flex Fatigue - Ross Flex



About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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