

# **ECO-FLEX RTPV**

Thermoplastic Rubber Combining ease of processing and cost-efficiency

**Automotive Market Brochure** USCAN



# **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.

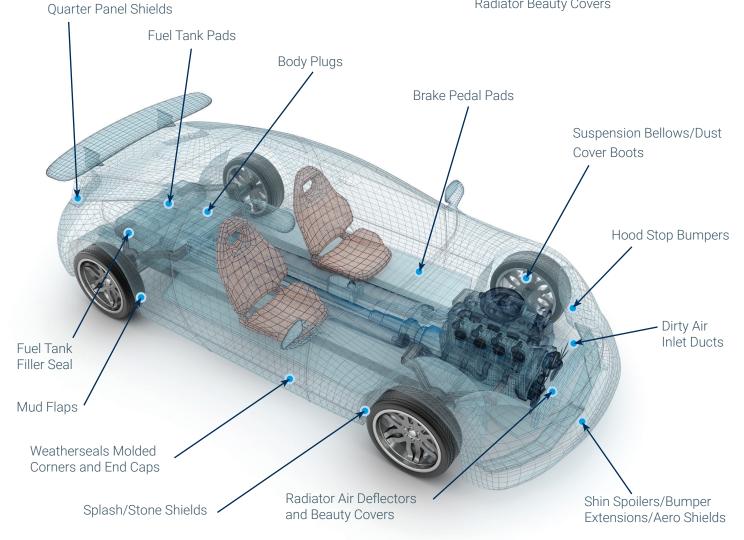
## **Target Applications:**



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:

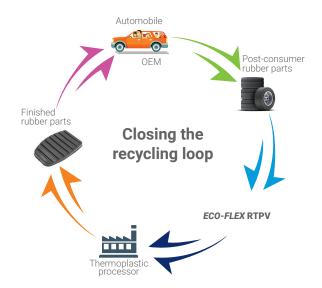
- Lower part cost: 30-50%
- Lower part weight: 20-40% lower SG than SBR/EPDM rubber
- I Enhanced design flexibility: overmolds to PP and PE, heat welding
- Increased "green" content (recycled rubber content)
- Increased recyclability (thermoplastic)



Brake Pedal Pads

#### **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





Bumper Extensions/Shin Spoilers



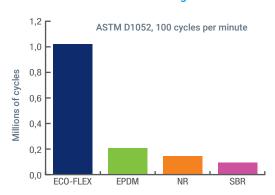
Mudflap



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**



# **ABOUTUS**

**LyondellBasell (NYSE: LYB)** is one of the largest plastics, chemicals and refining companies in the world. Driven by its 13,400 employees around the globe, LyondellBasell produces materials and products that are key to advancing solutions to modern challenges like enhancing food safety through lightweight and flexible packaging, protecting the purity of water supplies through stronger and more versatile pipes, and improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road. LyondellBasell sells products into approximately 100 countries and is the world's largest licensor of polyolefin technologies.

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001-FP-USCAN-FN-19-01