



# Mechanically Recycled Polypropylene for Automotive Applications: NOVAORBIS™-MR



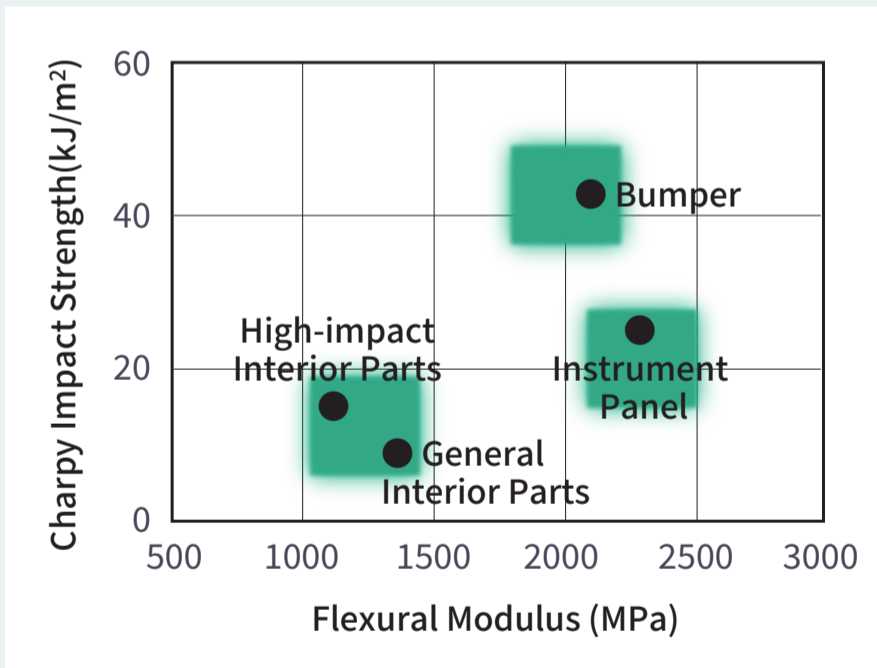
**Use**      **Bumper / Instrument Panel / Door Trim etc.**

- Background**
- It is possible to create recycled materials that have nearly the same physical properties and performance against compare with virgin materials.
  - It is possible to contributing to resource recycling and reduction of CO<sub>2</sub> emissions through the use of market recovered products (PCR-PP)

## Materials for Automotive & Appliance Products Applications

### Positioning Image of Polypropylene including PCR-PP

- Leveraging our knowledge of virgin materials, we can develop materials that meet the specifications for a wide range of automotive components.
- We develop materials that meet the targets set by JAMA.
- We can customize physical properties based on your requests.



### Properties of Polypropylene including PCR-PP (Reference Values)

		Bumper	Instrument Panel	Interior Parts	
				General	High-impact
PCR	wt%	25	25	50	25
Density	g/cm <sup>3</sup>	1.03	1.03	0.9	0.9
Flexural Modulus	MPa	2,100	2,300	1,300	1,100
Charpy Impact Strength (23°C / Notched)	kJ/m <sup>2</sup>	40	25	8	15

Contact | Japan Polypropylene Corporation

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