

POST-CONSUMER
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POST-CONSUMER RECYCLED RESINS

RECYCLED RESINS
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Plastic Circularity for Sustainability

Plastic has become an integral part of modern life due to its numerous advantages, including customizable properties, lightweight nature, durability, and cost-effectiveness.

However, it is a major contributor to climate change and global warming throughout its lifecycle, from production to disposal, as plastic is responsible for approximately 4% of the world's total greenhouse gas emissions. Therefore, reducing plastic consumption and improving waste management systems are crucial steps to mitigate these impacts.

TPBI applies the principle of Circular Economy to its operations by supporting efficient resource use, enhancing plastic circularity, and developing low-carbon recycled resins according to Sustainable Development Goals.

We provide a range of plastic recycled resins derived from post-consumer (PCR) and post-industrial (PIR) recycled waste to meet customer needs in various applications.

“Let us be your partner”



PCR HDPE FOR INJECTION GRADE

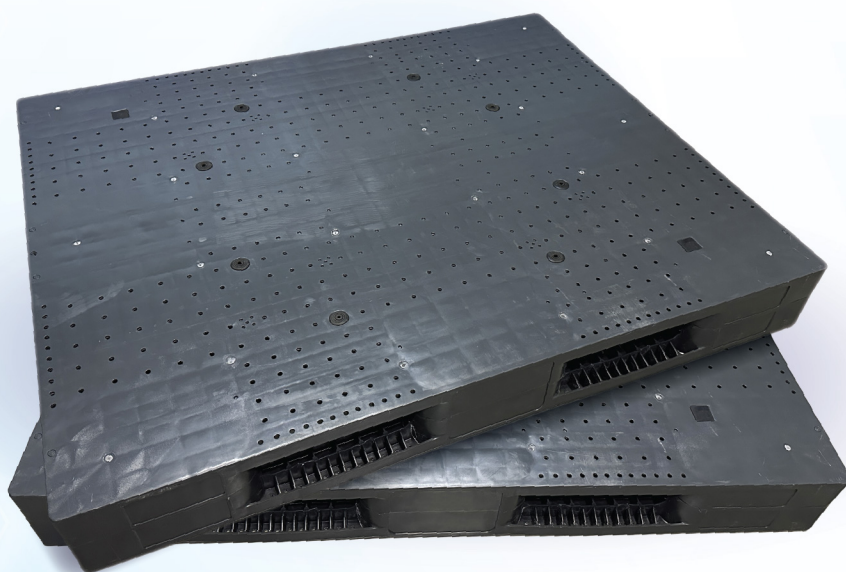
tpbi



Low carbon emission



Enhance plastic circularity



HDA03-6

MELT FLOW RATE
(190 °C, 2.16 kg)

3.0 - 4.0 g/10min

DENSITY

0.92 - 0.95 g/cm³

MOISTURE CONTENT

≤ 1 %

COLOR

Black

APPLICATION

Heavy Duty Pallet

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HDA03-6

Recycled High Density Polyethylene Resin

Product Description



HDA03-6 Recycled Plastic Resin is a high-density polyethylene resin with a melt flow index optimized for injection applications. The resin is formulated with 30% post-consumer recycled (PCR) scrap sourced from the WON Project; a formulation specifically aimed at lowering carbon emissions. This grade complies with requirements for non-food contact applications.

Typical Applications: Heavy-duty Plastic Pallet, Household Products

Properties

Physical	Test Method	Unit	Nominal Value
Density	ASTM D1505	g/cm ³	0.92 - 0.95
Melt Flow Index (190 °C, 2.16 kg)	ASTM D1238	g/10 min	3.0 – 4.0
Moisture Content	ASTM D4959	%	≤ 1
Mechanical			
Tensile Strength at Yield	ASTM D638	MPa	25
Tensile Strength at Break	ASTM D638	MPa	9
Elongation at Break	ASTM D638	%	420
Flexural Modulus	ASTM D790	MPa	1,200
Notched Izod Impact Strength	ASTM D256	J/m	46

Note: The information contained herein is typical values of the product obtained from representative samples and/or specific test batches. It is accurate and reliable as of the date issued but is provided for guidance only and is not to be considered as specifications. We make no warranties that extend beyond the description contained herein.