DESIGN FOR SUSTAINABILITY

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MALAYSIA’S PRIVATE SECTOR: INNOVATION AS A DRIVER TO TACKLE MARINE PLASTICS
Economic Research Institute for ASEAN and East Asia (ERIA)
23 NOVEMBER 2021
ABOUT MALAYSIAN PLASTICS MANUFACTURERS ASSOCIATION (MPMA)

MPMA is the official voice of the Malaysian plastics industry, representing its members and the industry in Government interaction, spearheading the plastics industry’s growth.

Established in 1967, MPMA has over 700 members across Peninsular and East Malaysia.

MPMA represents 60% of plastics manufacturers, accounting for 80% of the country’s total production of plastic products.
MPMA’S ACTIVITIES FOR MEMBERS AND THE INDUSTRY

[Industrial Skills Framework for the Malaysian Plastics Industry]

Focus: Injection Moulding Sector

Source: MPMA [https://mpma.org.my/]

[MPMA PLASTECH MONTH 2021]

CIRCULAR ECONOMY
NOVEMBER 25 2021

FLEXIBLE PACKAGING
NOVEMBER 16 & 23 2021

MATERIALS TECHNOLOGY
NOVEMBER 9 2021

MOULDING UPDATES
NOVEMBER 11 & DECEMBER 2 2021

RECYCLING TRENDS & TECHNOLOGIES
NOVEMBER 30 2021

SMART MANUFACTURING
NOVEMBER 2 & 10 2021
The **New Plastics Economy** by the Ellen MacArthur Foundation outlines a global vision for **plastics to never become waste**.

In simpler terms, efforts should be made to retain plastics in the supply chain – **move from a linear to circular system**.

Source: Ellen MacArthur Foundation (https://ellenmacarthurfoundation.org/)
INDUSTRY’S ACTIONS
DAIBOCHI BERHAD
(a member of Scientex Group)

Mono-Material Laminate Packaging

The following is an example of a commercialised packaging solution which converted a Multi Material Laminate (non-recyclable) into a Mono-Material Laminate (fully recyclable) which will subsequently carry the number 5 recycling symbol of Polypropylene (“PP”). This conversion was the first of its kind in Malaysia.

Source: Daibochi Berhad (https://daibochi.com/)
Sustainability is inevitable so let's strive to close the loop together. Send your film wastes back to us so we can give them life again as new films.

It's not rocket science. Just talk to us.

Source: Thong Guan Industries Berhad (https://www.thongguan.com/)
SEKOPLAS INDUSTRIES SDN BHD

GARBAGE BAGS

Source: Sekoplas Industries Sdn Bhd (http://sekoplas.com.my/)
Recycled Polyester Staple Fibre
turning bottles into fibre!

Made from 100% post-consumer PET bottles. It can be used to manufacture almost anything sustainable, from the bed to aerospace.

Recycled Plastic Pellets
Waste recycled, recovered and re-engineered!

Made from 100% post-consumer bottles and plastics. Plastics are recovered and re-engineered into materials for constructions and plastic molding industries.

Types of Fibre
- Hollow Conjugated
- Hollow Conjugated Siliconized
- Hollow Fibre
- Solid Fibre

Types of Recycled Resins
- HDPE
- LDPE
- PE/PP
- PP
- ABS
- HIPS

Source: Diyou Fibre (M) Sdn Bhd (https://www.diyoufibre.com/)
Smart Plastics
Smart plastics is our customisable material made out of recycled plastics. Not only are they just as good, if not better than newly manufactured plastics, they are also designed to save cost, time, waste, and most importantly, our ocean.

We offer smart plastic materials sourced from two types of recycled plastics.

Many colours, many features
We do not produce one-size-fits-all plastic. Our recycled plastics are fully customisable to fit all sorts of applications.

Faster, better, greener
We employ greener production processes in comparison to manufacturing using newly manufactured plastic. Since this is done through a single, streamlined supply chain, it saves production cost too.

Post-consumer recycled plastics
Plas Haus is our trademarked smart plastic product, made out of generic recycled plastics collected from other sources before they end up in the landfill or the ocean.

Ocean-bound plastics
Plas Haus Ocean is made out of sourced from plastic that are at high risk of entering the ocean if not collected in time, which includes shoreline, rivers, banks or landfill.

Source: Heng Hiap Industries Sdn Bhd (https://www.henghiap.com/)
CONCLUSION

The choice moving forward for the plastics industry is to produce sustainable plastics – either recyclable or compostable.

End-of-life / waste management solutions and consumer education have to be developed and strengthened concurrently to reap the benefits of sustainable plastics.
THANK YOU

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