



INTUNE™ Polypropylene-based OBC Compatibilizers: New Value for Post Consumer Recycle

A Breakthrough for Recycle Feedstreams

For years, the recycling industry has scrapped residual materials that are left after sorting and processing. Post consumer recycle (PCR) streams that typically include polypropylene (PP) and polyethylene (PE) don't blend well and are difficult to process. Historically, these mixed PP and PE blends are technically and economically challenging to sort and can only be used in low addition levels for lower-value goods due to poor material performance.

INTUNE™ Polypropylene-based Olefin Block Copolymers (OBCs) are effective and affordable compatibilizers for PCR blends of PE and PP. These breakthrough compatibilizers offer up-cycling opportunities for recyclers and brand owners.

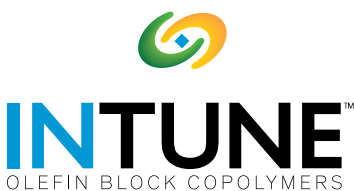
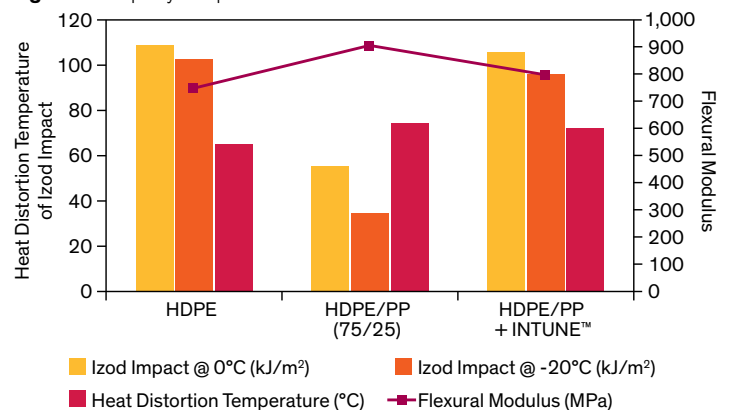
Cost-effective, Higher Performing Recycle

With INTUNE™ Polypropylene-based OBCs, multi-resin, residual recycle materials that would otherwise not be compatible can now be blended and used in more valuable applications. INTUNE™ OBC technology also allows PP and PE to be combined with polyolefin elastomers and polar materials such as ethylene vinyl alcohol (EVOH), high density polyethylene (HDPE), and polyamide to create broad, flexible formulations.

As seen in Figure 1 below, compatibilizing such blends with INTUNE™ OBCs can lead to improved property balance which increases the available supply of useable PCR and provides access to higher value applications at a lower overall systems cost.

This breakthrough opportunity means that mixed PE and PP PCR scrap that was once thrown away can now be added in varying levels to industrial packaging and durables applications and meet brand owner demands for performance.

Figure 1: Property and performance enhancements with INTUNE™ OBCs



Discover the Possibilities

For more information on INTUNE™ PP-based OBCs technology and how it improves the value stream for PCR to reshape the plastics recycling industry, contact your Dow Elastomers representative, or contact the nearest location listed on the back.

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