

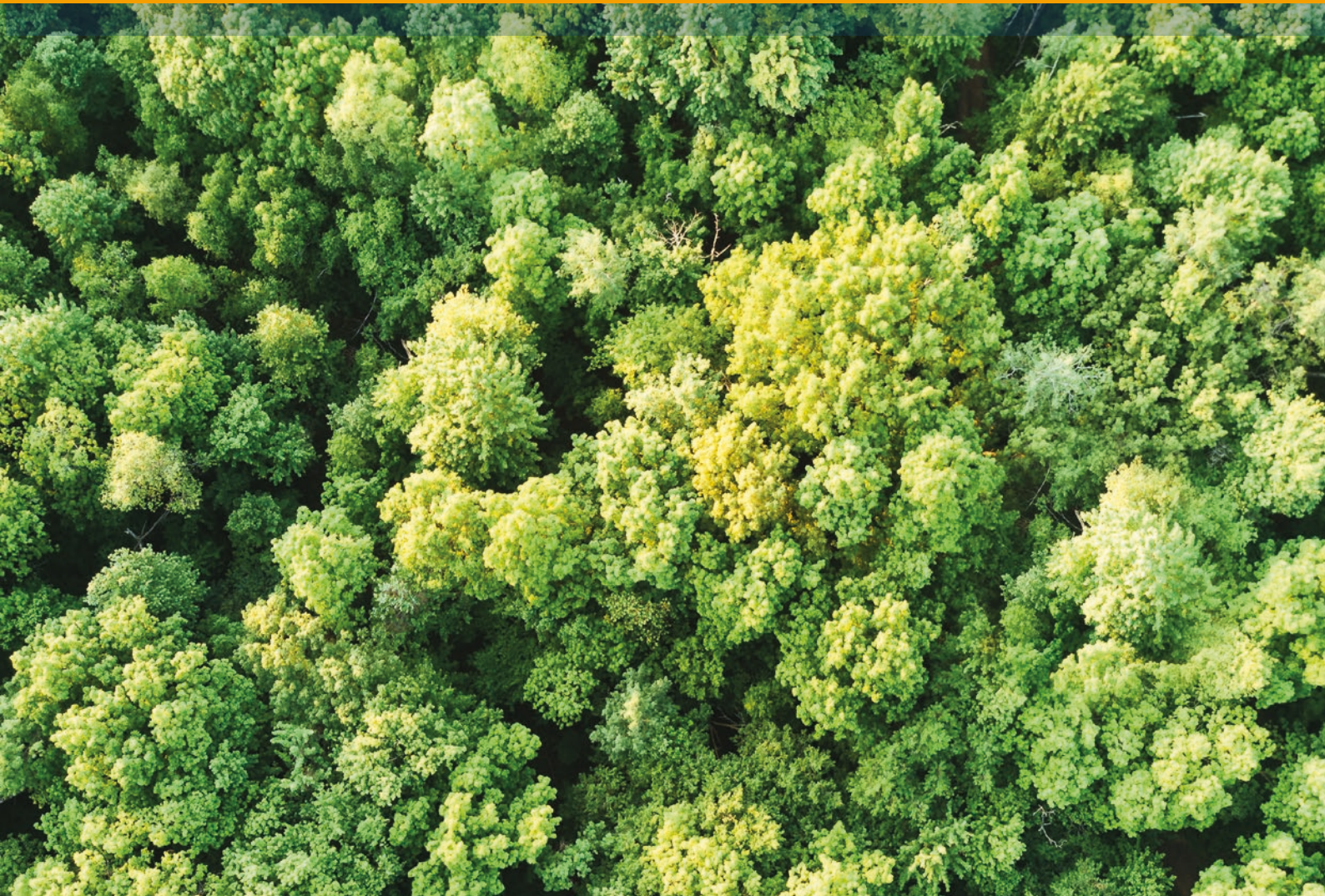
NGC

a BJØRN THORSEN A/S company

Nordic Grafting Company

ACTI-TECH™ compatibilizer

Highly-grafted flexible material for packaging,
recycling & compounding applications,
enabled by Vistamaxx™ performance polymer



ACTI-TECH™ compatibilizer - A PARTNER FOR EVERY STEP OF THE PROCESS

CONCENTRATE FOR TIE-LAYER EU 10/2011 COMPLIANT

KEY FEATURES

- Used in all PO based packaging
- Adjustable viscosity of final tie-layer blend
- High reactivity for better adhesion
- High flexibility & mechanical properties
- Tunable & cost-efficient solution

POST-CONSUMER RECYCLING (PCR)

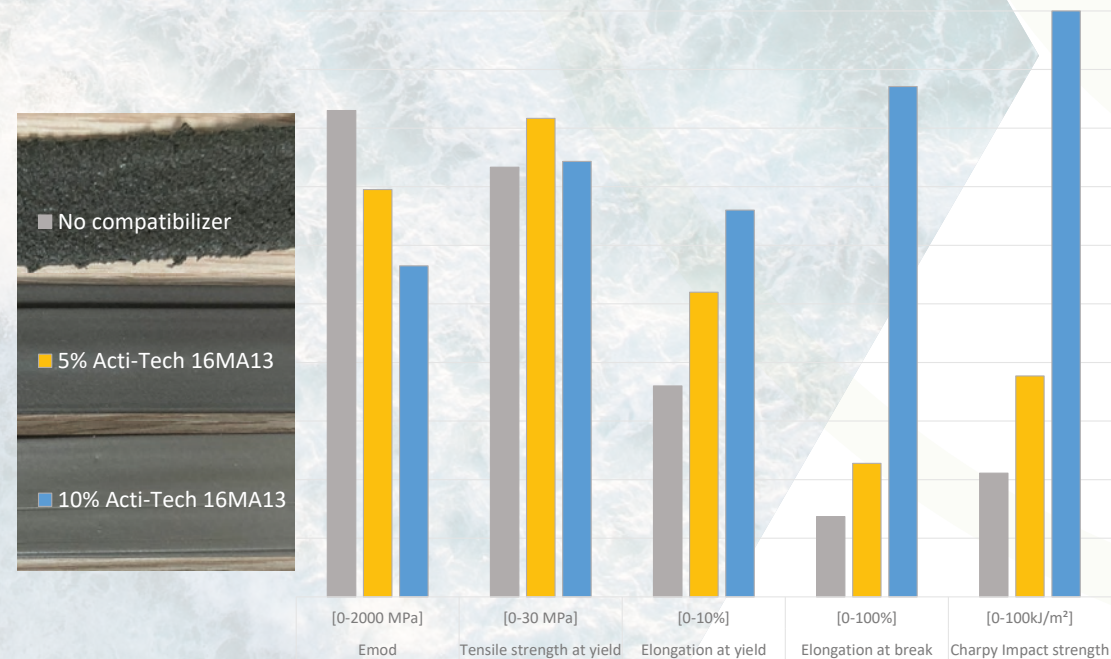
An unique solution for **post-consumer recycling** from multiple waste streams

KEY FEATURES:

- Increases recycle content in compounds
- Enables outlet for post-consumer waste
- Upgrades performance of films made of recyclates
- Improves optical properties when compounding recycle stream

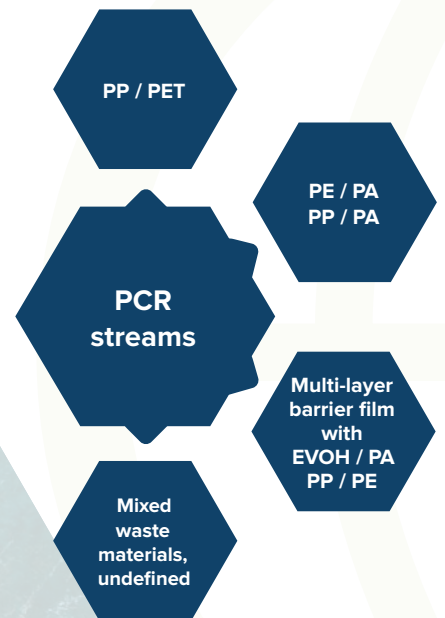


REUSE OF MIXED PCR FEEDSTOCK WITH ACTI-TECH COMPATIBILIZER



CO² REDUCTION

WASTE GENERATION



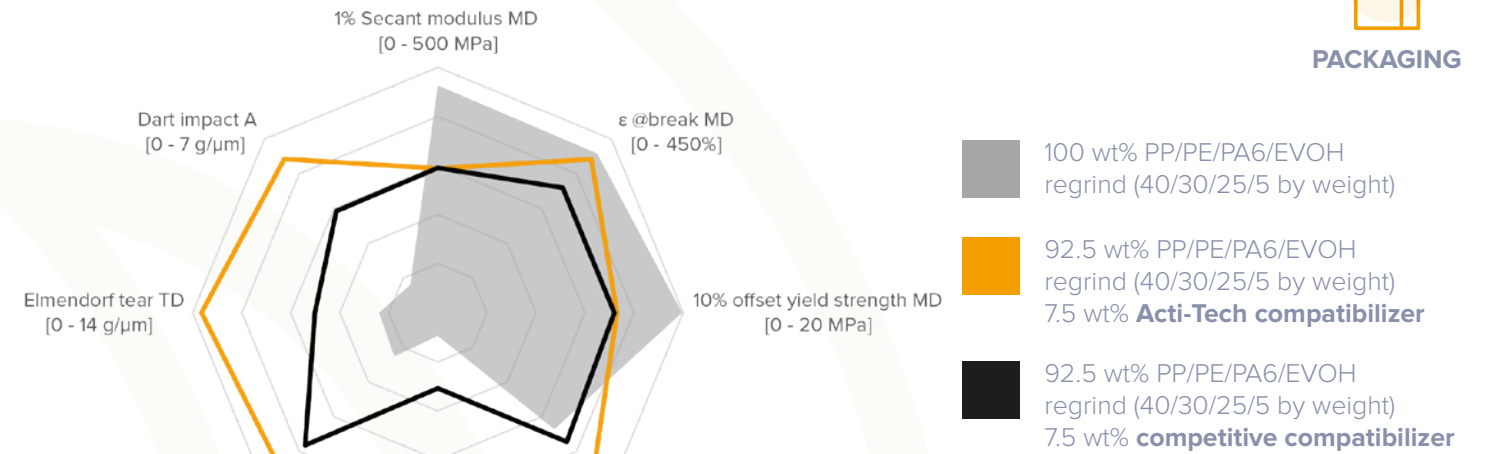
IN-HOUSE & PRE-CONSUMER RECYCLING

BENEFITS AT A GLANCE

- Compatible with polyolefin materials
- Recyclable design
- Adjustable viscosity
- Highly flexible material
- Improved stretch and sealability
- EU 10/2011 compliant

VARIOUS WASTE STREAMS

- Multilayer barrier film packaging
- Shrink sleeves
- EBM cosmetic or phytosanitary containers
- Rigid packaging
- Reinforced/Multiwall tube & hoses
- Mats & carpets



All films are 50μm, monolayer and dry blends of barrier film recycle with compatibilizer

Data from tests performed by or on behalf of ExxonMobil

COMPOUNDING

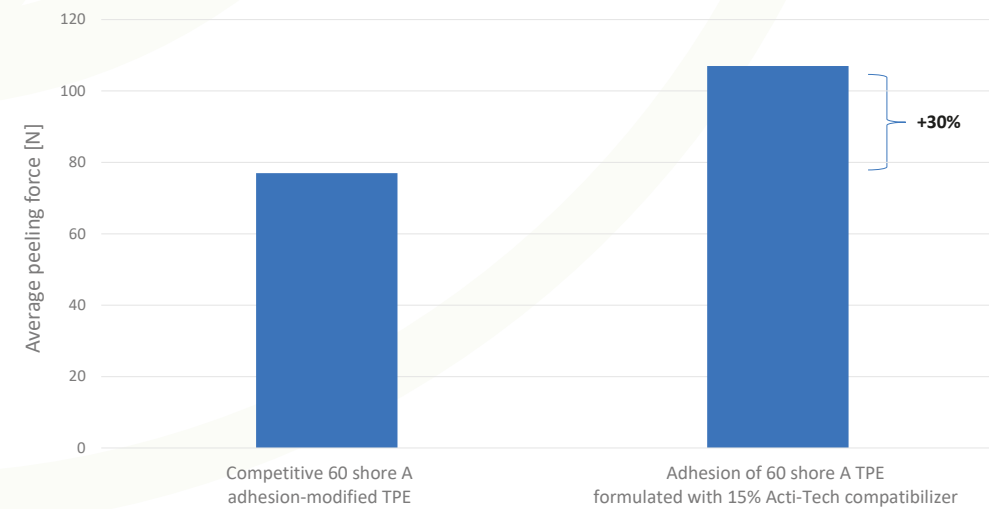
BENEFITS AT A GLANCE

- Wide viscosity range
- High functionality, meaning lower loading level required
- Soft touch compatibilizer
- Improved filler wettability & dispersibility
- Enhanced adhesion on polar substrates

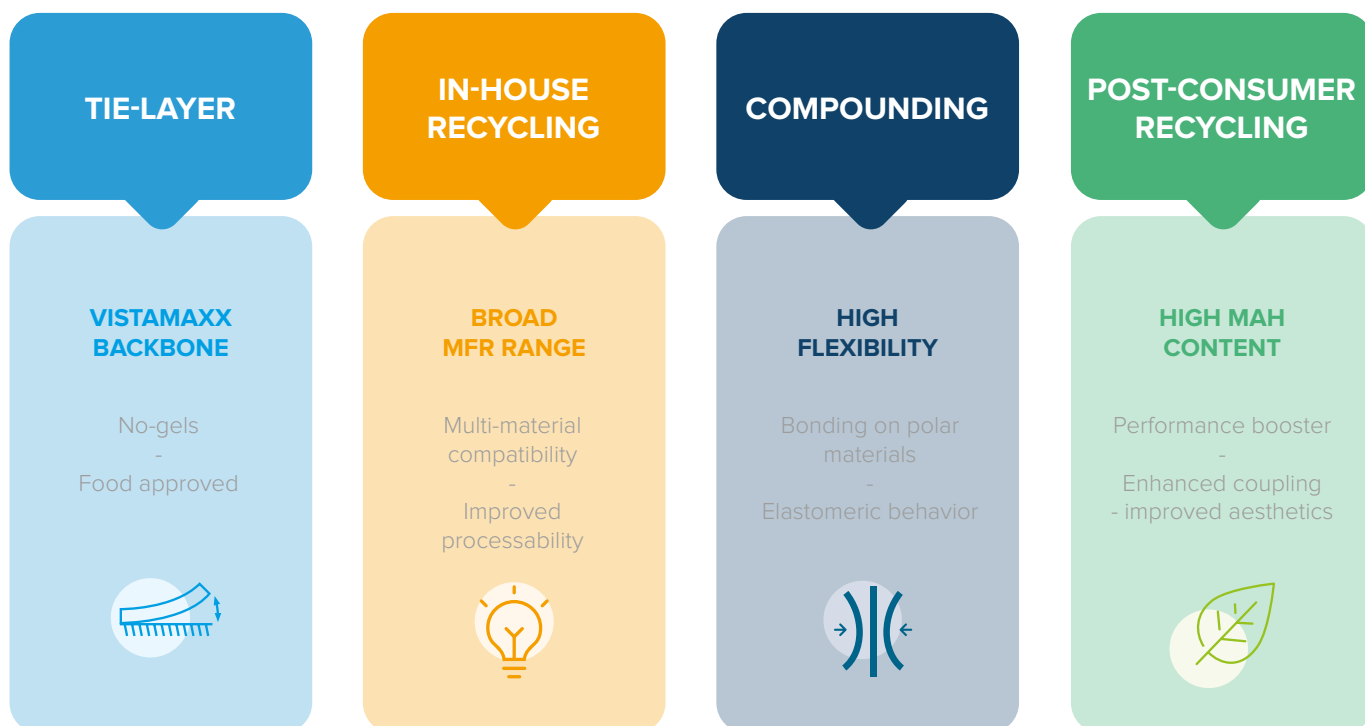
FIT APPLICATIONS

- Adhesion promoter for TPV, TPE or TPO
- Alloys (PP/PET, PP/PA,...) & composites (PP-CF, PET-HFFR-GF,...)
- WPC or natural fiber compounds (NFC)
- High bio-based content alloys (cellulose, PLA, PBS)
- High-filled compounds (HFFR, BaSo4,...)

ADHESION STRENGTH ON PA6-GF30 / 2K MOLDING (Adhesion measured according to VDI2019)



ACTI-TECH™ compatibilizer: ONE SOLUTION FOR ALL NEEDS



PRODUCT PORTFOLIO

GRADE	MAH %*	MFR*	KEY FEATURES	RECOMMENDED APPLICATIONS
04MA13	> 1 %	17	<ul style="list-style-type: none"> High softening point 400 MPa flexural modulus 	Compounding Coupling agent for fibers & special filler
08MA18	> 1.7 %	70	<ul style="list-style-type: none"> High flow Enhanced filler wetting 	WPC, NFC Melt impregnation, NW PP & PE modification
09MA13	> 1 %	15	<ul style="list-style-type: none"> High versatility 	Compounding Adhesion to polar substrates, metal
09MA18	> 1.7 %	30	<ul style="list-style-type: none"> High functionality 	Compatibilization PP/PA, PP/PET Recycling of mixed feeds PO with ETP
11MA13	> 1 %	8	<ul style="list-style-type: none"> Medium flexibility Highest viscosity 	Tie-layer concentrate for films & sheets
16MA11F	> 1 %	50	<ul style="list-style-type: none"> High flexibility EU10/20211 food contact 	Tie-layer concentrate for films & sheets In-house recycling
16MA13	> 1.2 %	10	<ul style="list-style-type: none"> High elasticity 10 MPa flexural modulus 	Recycling of mixed feeds PO with PET, PA, EVOH Adhesion promoter for TPV, TPE, TPO Highly filled compounds (HFFR,...)

*Values listed here are typical averages and should not be taken as our Product Specification

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