

# 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

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



HOSES & TUBES

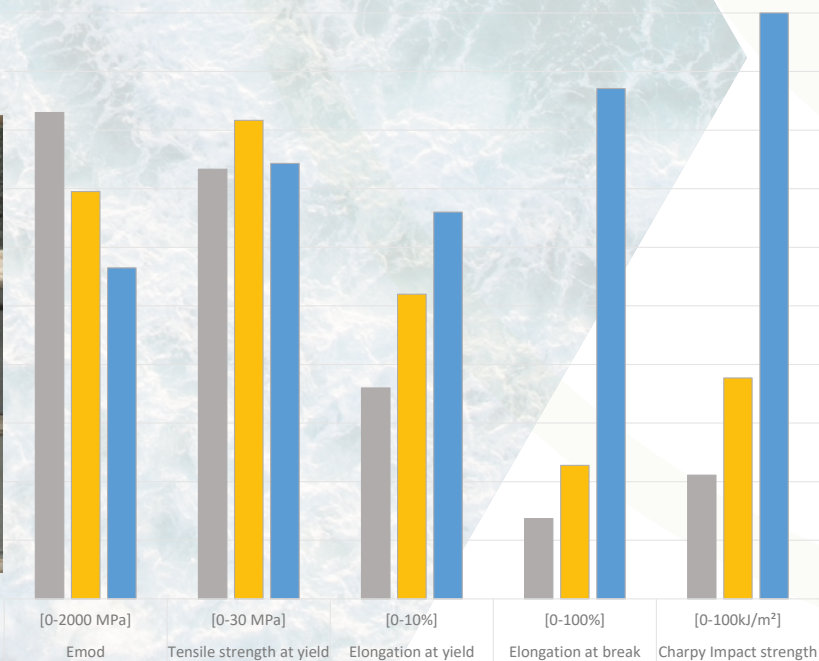
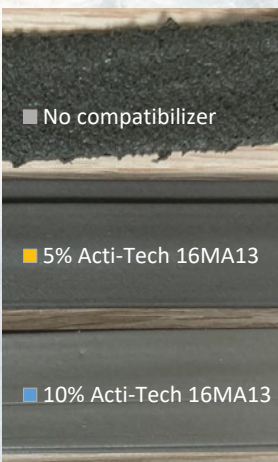


AUTOMOTIVE



PACKAGING

REUSE OF MIXED PCR FEEDSTOCK WITH ACTI-TECH COMPATIBILIZER

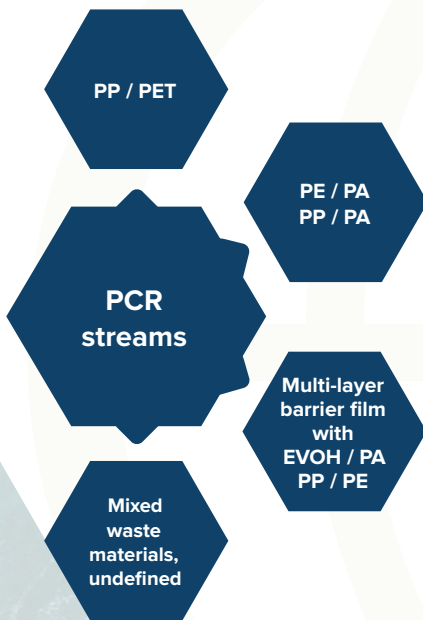


CO<sub>2</sub> REDUCTION

WASTE  
GENERATION

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



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



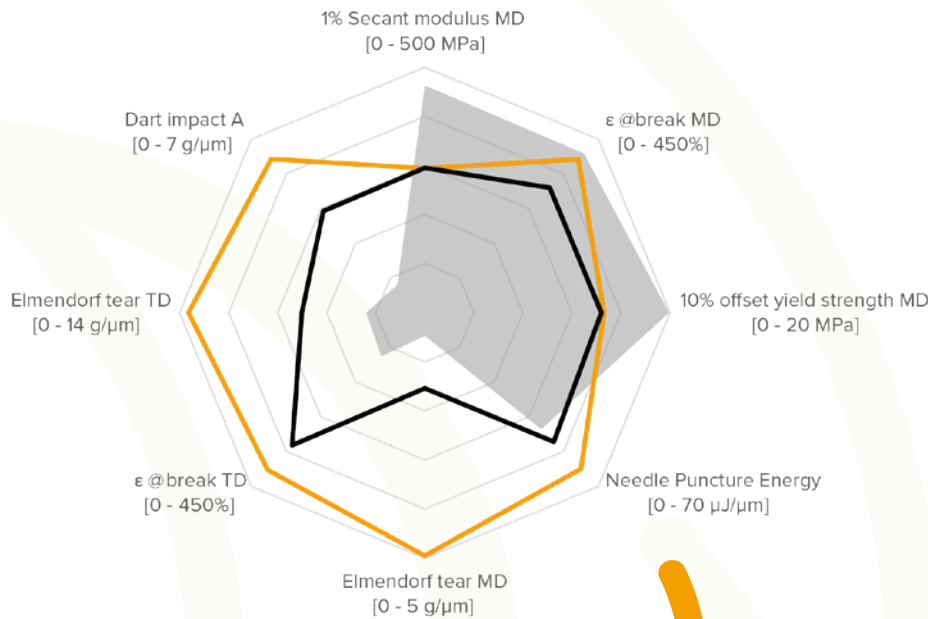
TEXTILE



HOSES  
& TUBES



PACKAGING



100 wt% PP/PE/PA6/EVOH  
regrind (40/30/25/5 by weight)

92.5 wt% PP/PE/PA6/EVOH  
regrind (40/30/25/5 by weight)  
7.5 wt% **Acti-Tech compatibilizer**

92.5 wt% PP/PE/PA6/EVOH  
regrind (40/30/25/5 by weight)  
7.5 wt% **competitive compatibilizer**

*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

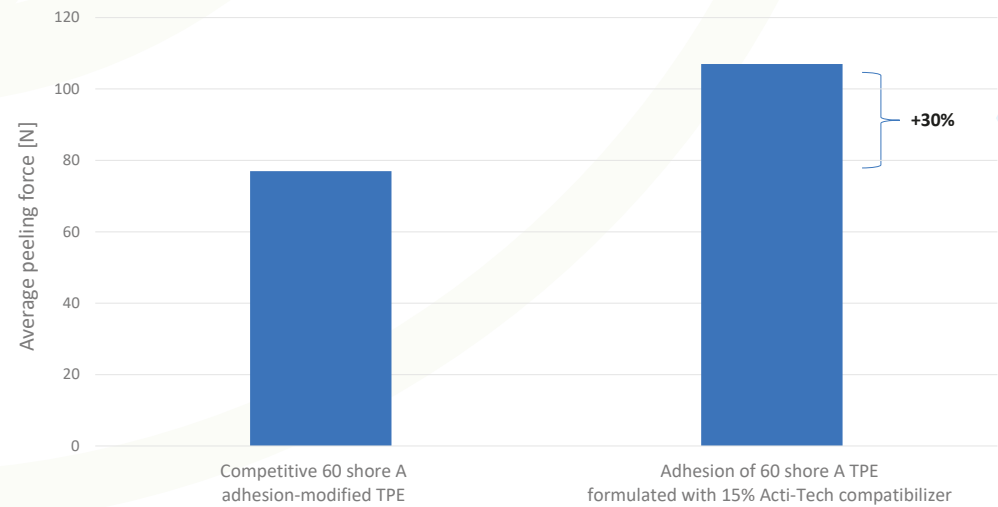
BENEFITS AT A GLANCE

- 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)

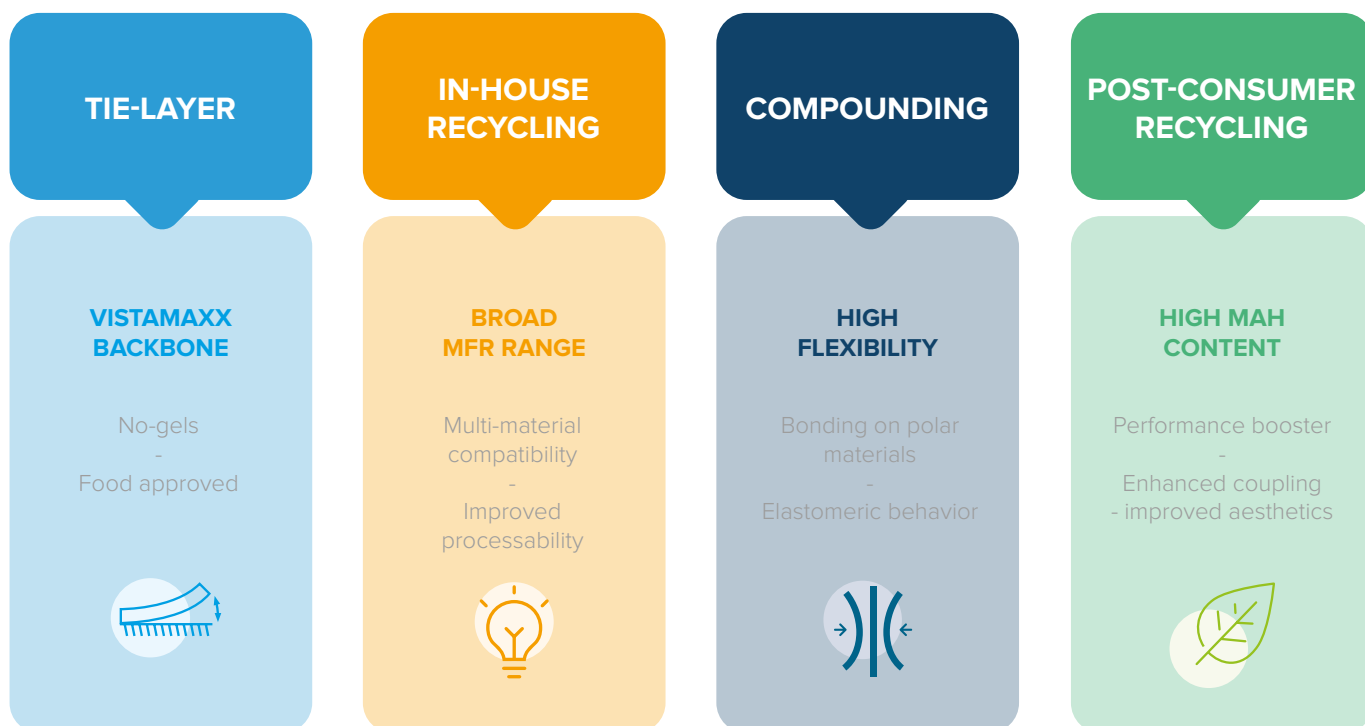


WPC / NFC



WIRE & CABLE

# ACTI-TECH™ compatibilizer: ONE SOLUTION FOR ALL NEEDS



## PRODUCT PORTFOLIO

GRADE	MAH %*	MFR*	KEY FEATURES	RECOMMENDED APPLICATIONS
<b>04MA13</b>	> 1 %	17	<ul style="list-style-type: none"> <li>High softening point</li> <li>400 MPa flexural modulus</li> </ul>	Compounding Coupling agent for fibers & special filler
<b>08MA18</b>	> 1.7 %	70	<ul style="list-style-type: none"> <li>High flow</li> <li>Enhanced filler wetting</li> </ul>	WPC, NFC Melt impregnation, NW PP & PE modification
<b>09MA13</b>	> 1 %	15	<ul style="list-style-type: none"> <li>High versatility</li> </ul>	Compounding Adhesion to polar substrates, metal
<b>09MA18</b>	> 1.7 %	30	<ul style="list-style-type: none"> <li>High functionality</li> </ul>	Compatibilization PP/PA, PP/PET Recycling of mixed feeds PO with ETP
<b>11MA13</b>	> 1 %	8	<ul style="list-style-type: none"> <li>Medium flexibility</li> <li>Highest viscosity</li> </ul>	Tie-layer concentrate for films & sheets
<b>16MA11F</b>	> 1 %	50	<ul style="list-style-type: none"> <li>High flexibility</li> <li>EU10/2011 food contact</li> </ul>	Tie-layer concentrate for films & sheets In-house recycling
<b>16MA13</b>	> 1.2 %	10	<ul style="list-style-type: none"> <li>High elasticity</li> <li>10 MPa flexural modulus</li> </ul>	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

## CONTACT

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