

EXXELOR YPAREX

Modifiers for Technical Polymers Extrudable adhesive resins

We add
know how to
compounds.

Erik Bijleveld – Product and application development manager





Overview

Key facts TCC

- Introduction of The Compound Company

Product Information

- Yparex and Exxelor products

Manufacturing site

- Background information on production site

Grade Slate

- Yparex and Exxelor product overview

Key Applications

- What are the key applications of Yparex and Exxelor polymer resins?

The Compound Company History

Chronological overview

- 1983 Foundation **Hartmann Compounding** (garden furniture)
- 2011 Spin-off **Yparex** from DSM
- 2016 Joint venture **Resindo**, Indonesia
- 2017 Foundation of the **The Compound Company** (Resin + Yparex) **ECOFORTE**
- 2018 TCC acquires **Transmare Compounding**, Roermond
- 2019 New production facility in Enschede
- 2022 Acquisition of **CMP Business (Exxelor)**





Sustainability is key @ The Compound Company

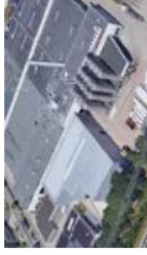
- ISCC+ certified company
- ISCC+ tie resins
- EcoVadis gold medal
- Broad range of compatibilizers





Enschede, NL

6 production lines, including grafting capabilities on 2 production sites



Roermond, NL

7 production lines



Cologne, DE

2 production lines with grafting capabilities

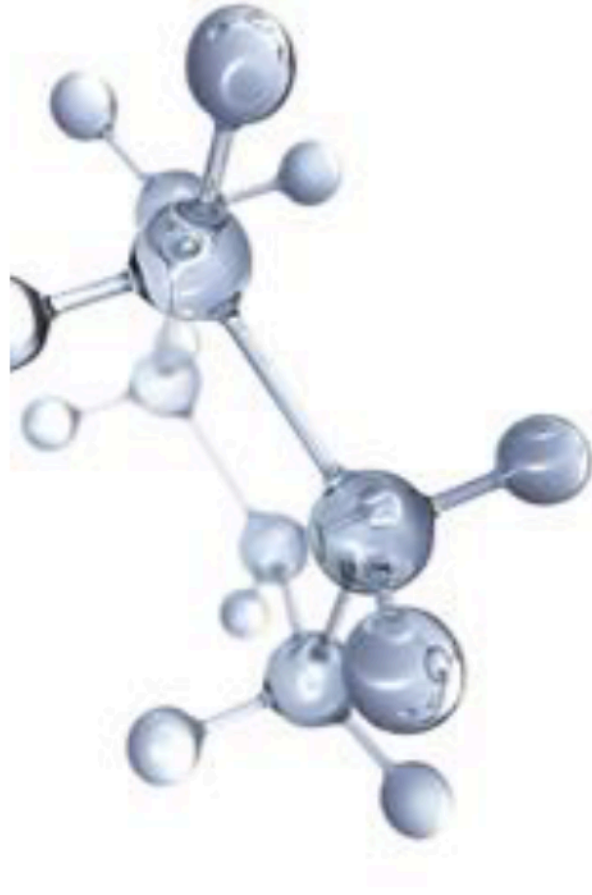


Jakarta, ID

2 production lines, including reactive extrusion

- approx. 130 employees
- core business is grafting
- worldwide availability of products
- strong cooperation with agents and distributors
- excellent technical support

Exxelor insights





Exxelor manufacturing information

CMP Manufacturing GmbH, DE

- Produced at manufacturing plant in Cologne (DE) since 1986
 - 7 commercial grades
- Based on >25 years research in polymer reactive extrusion
 - Free radical generation with peroxide
 - Maleic Anhydride grafting
- Excellent safety, quality & reliability performance
- Supplying global market





Exxelor key features

Impact Modification

- Improve the overall toughness of polymers
- Enhanced ductility in blends at low temperatures (down to -40°C)
- Polyamide, Polyester, Polycarbonate modification



Compatibilizers

- Act as a solid surfactant
- Increase interphase adhesion and achieve compatibility between most polymers with different polarities (e.g. PA/PP blends)



Coupling agents

- Promote chemical bonding between fillers, reinforcements such as glass fiber and the polymer matrix



Adhesion promoters

- Enhance adhesion to materials such as metal, thermoset rubbers and most polar substrates





Exxelor portfolio

- **Exxelor VA Grades**

	Backbone	Grafting Level FTIR EPK-04 QT-02	MFR (g/10 min) ASTM D1238	Low Temp. Capability
VA 1801	EPDM	High (0.5-1.0%)	9 (10kg, 230°C)	Medium
VA 1902	EPDM	High (0.5-1.0%)	27 (10kg, 230°C)	High
VA 1803	EPDM	High (0.5-1.0%)	22 (10kg, 230°C)	High
VA 1840	Plastomer	Medium (~0.35%)	8 (5kg, 230°C)	Medium
VA 1202	Plastomer	High (0.5-1.0%)	18 (5kg, 230°C)	Room Temp.



- **Exxelor PO and PE Grades**

Grade	Backbone	Grafting Level FTIR EPK-04 QT-02	MFR (g/10 min) ASTM D1238
PO 1015	PP (copo)	Medium (~0.45%)	22 (1.2kg, 190°C)
PO 1020	PP (homo)	High (0.5-1.0%)	110 (1.2kg, 190°C)
PE 1040	HDPE	High (0.5-1.0%)	1.4 (2.16kg, 190°C)

Packaging

- 25kg bags (50 bags/pallet), 450kg octabins or 1MT big bags
- VA1803 cardboard supported packaging only (40 bags/pallet)



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**"Once you get in touch,
you stick to it"**