

TECHNYL[®] exten

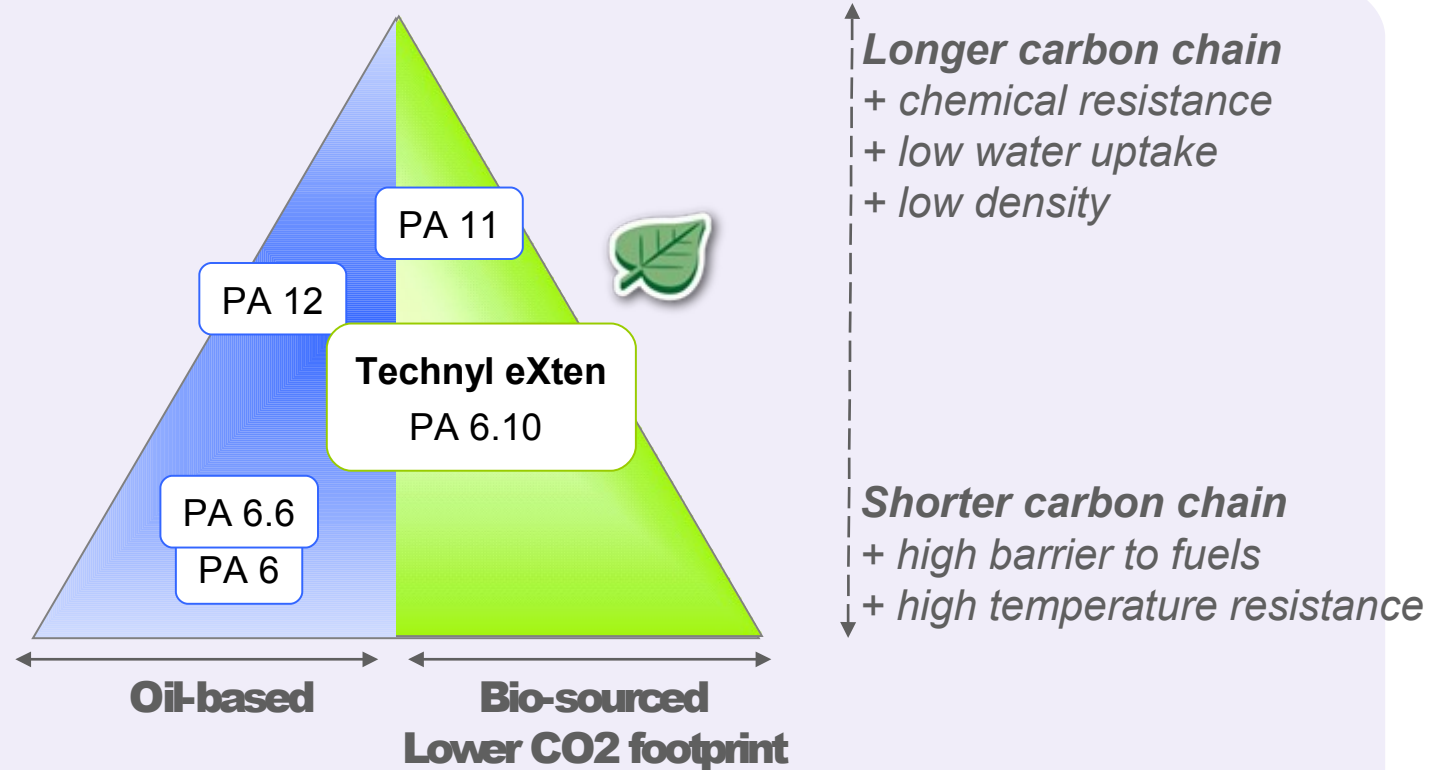
 **Rhodia**
Chemistry is our world, Responsibility is our way

Bio-sourced polyamide alternative



March 2012

Technyl eXten PA 6.10, a high performance polyamide, alternative to PA12



Key Benefits:

- 1. Proven alternative to PA 12 materials**
- 2. Superior impact and temperature resistance**
- 3. Bio based, greener footprint vs oil-based PA**
- 4. Higher barrier to fuel and gas (O₂, CO₂)**

Technyl eXten PA 6.10, an efficient alternative to PA 12

Grades available for tubing and for injected parts

AUTOMOTIVE



Tubing
*Brake booster,
vapour line,
fuel pump pipe,*



D 458P

**Fuel quick
connectors**



D 238 V30

INDUSTRIAL

**Industrial PA
tubing**
*Pneumatics,
machines, robotics..*



**D 437P
D 458P**

CONSUMER:

**Sporting
shoe soles**



r&d

**Dishwasher
rack**



r&d

TRUCKS

Flexible hoses



D 458P



Take the full benefit of a new high performance polyamide

Battery gasket



D 247F



*50% extended lifetime
thanks to better chemical resistance*

Fixations



D 238 V30



*High low temperature impact
Superior environmental profile*

Salt resistant water tanks



r&d



*Extended lifetime in cold countries
thanks to better salt resistance*

Electrical



r&d



*High dimensional stability
Superior environmental profile*

Technyl eXten PA 6.10, a versatile alternative to long chain PAs

TECHNYL[®]eXten

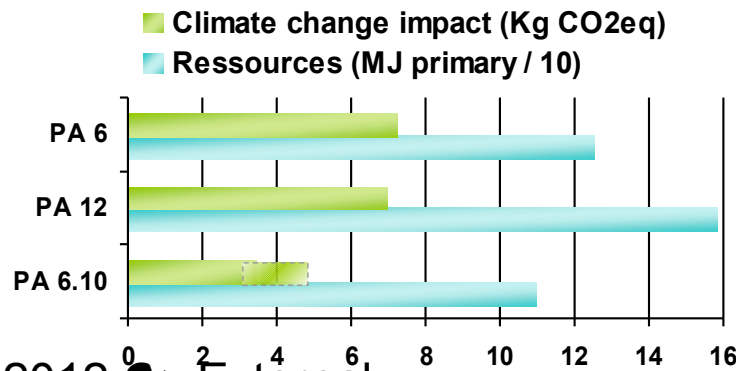
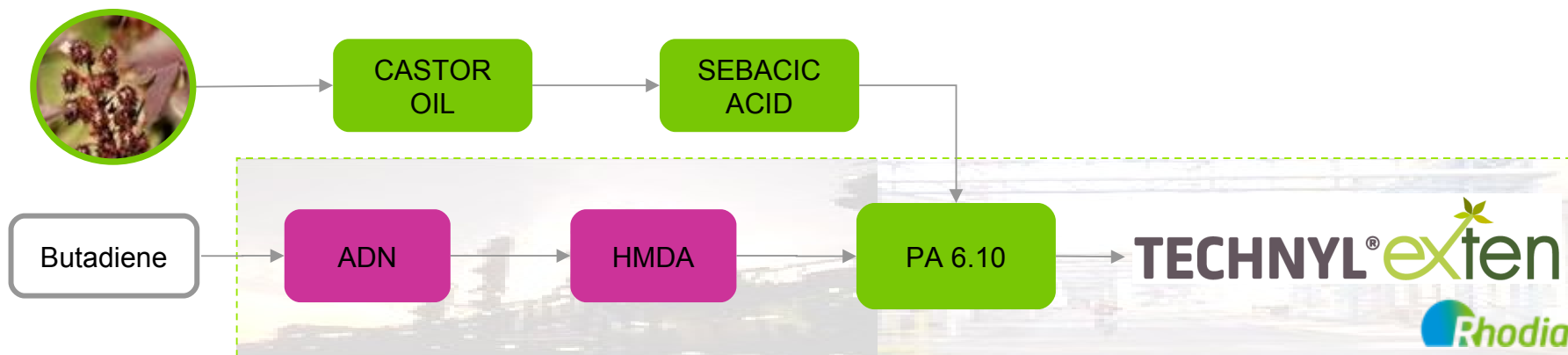
	Technyl eXten (PA 6.10)	PA 12 (longer C chain)	PA 6 (shorter C chain)
Temperature resistance	★★★★	★	★★★
Mechanical resistance	★★★★	★★★	★★★
Impact resistance (at low °C)	★★★★	★★	★★★
Chemical resistance to salts (ZnCl ₂)	★★	★★★	★
Barrier to fuel	★★	★	★★★
Barrier to gas (O ₂ , CO ₂)	★★★★	★	★★★
Water uptake Dimensional stability	★★	★★★	★
Processing (extrusion, injection)	★★★★	★★★	★★★

Technyl eXten offers environmental reduction compared to oil-based plastics

Technyl eXten is **one of many Rhodia Engineering Plastics solutions to reduce the environmental impact** of our processes and of our customers products

- It is based on a chemical technology selected for its remarkable *environmental, technical and economical* performance, compared to traditional technologies
- Its **sustainability profile is permanently revised** with today's most demanding sustainable criteria by a team of experts in life cycle assessment analysis

RhodiaWay™



Technyl eXten product range available today



Commercial name	Type	Features
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EXTRUSION GRADES, for flexible tubes and pipes

Technyl eXten D 458P (natural and black)	Plasticized PA 6.10, impact modified, heat and UV stabilized,	General purpose grade, for flexible extruded products <i>Alternative to "PA 12 semi-flexible" grades</i>
Technyl eXten D 437P (natural)	Plasticized PA 6.10, heat and UV stabilized	Translucent grade, for flexible extruded products

INJECTION GRADES, glass reinforced, for all kind of injected parts

Technyl eXten D 218 V30 (black)	PA 6.10, 30% glass filled	General purpose grade, for all kind of injected products
Technyl eXten D 238 V30 (black)	PA 6.10, 30% glass filled, impact modified	Very high impact at low temperature

Rhodia Way”



Chemistry is our world, Responsibility is our way

«Chemistry is our world, Responsibility is our way» is Rhodia’s signature. It conveys the **key mission** of the Group and expresses its undertaking to be a **responsible** chemical company. We are proud to develop products and solutions that contribute to progress in other industrial sectors in accordance with our **commitments** to our stakeholders. Rhodia’s framework of stakeholder commitments helps ensure continuous improvement in our practices related to **sustainable development**. It is evident on a daily basis in the quality of our employee dialogue, the priority given to safety of people and processes and the constant concern for **conserving** the environment and human health

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