

Performance Butadiene Rubbers – Taking performance to a new level

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BU Performance Butadiene Rubbers offers top solutions which meet today's and tomorrow's requirements



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- PBR Business overview
- Growth drivers
- Investments and technology upgrades
- Outlook



PBR – Business overview

Facts	 Production capacity: Sales: Employees: Customers: Production sites: 	>800,000 t/a (all rubber grades) >€500 m ~1,000 >250 Dormagen (GE); Triunfo, Cabo, Caxias, (BR); Port Jérôme (FR); Orange (US)
Products & brands	Product groups:Brand:	Polybutadiene rubbers Styrene-butadiene rubbers
Markets & competition	Share:Market size:Competitors*:	LANXESS No. 1 in performance rubber ~€11 bn EUR in 2010e Goodyear, KKPC, Petrochemicals, NKNK, Polimeri, Sibur, Sinopec, Styron
Merchant market		LANXESS

PBR offers a full range of performance rubbers for a variety of industries



BU PBR with solid footing in the performance rubber market

LANXESS Sinopec BSFS Goodyear KKPC Michelin Asahi Styron Petrochina Polimeri Sibur Group JSR Efremov TSRC NKNK	Capacity [kt]	Capacity [kt]
Petrochina KKPC Polimeri Sibur Group JSR Efremov TSRC NKNK	LANXESS Sinopec BSFS Goodyear KKPC Michelin Asahi	LANXESS NKNK Polimeri Sibur Carbochem
Efremov TSRC NKNK	Petrochina Polimeri Sibur Group	ккрс
Mainly captive use Partially captive use	Efremov TSRC NKNK /// Mainly captive use Partially captive use	use

Strong global footprint with world-class manufacturing base



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Performance Butadiene Rubbers demand is driven by two megatrends

Growth driving megatrends			
Mobility	Urbanization		
 Tire labeling, overall performance improvement for tires Increasing transportation, growth in retreading for truck tires Energy efficient tires, e-mobility 	 Population growth Increase in consumption of performance goods 		
Market development (2011-201	5)		
 Performance applications*: ~10 Overall long-term CAGR: 3-4 			
-5	%		
- EMEA: ~2	%		
- Americas: ~2			



* Markets for SSBR and Nd-PBR

Minimum performance of tires regulated in the EU and soon to come in further countries



Manufacturers need high-end rubber to achieve an overall performance improvement for tires



Change in consumer behavior for tire consumption triggered by an overall win-win situation



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LANXESS Nd-PBR also provides opportunities in the growing retreading market







Sources: www.retread.org; www.tyrepress.com; LANXESS market intelligence

Low rolling resistance is a crucial factor for e-cars to extend driven mileage range



Supply / demand expected to tighten mid-term



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Strategic investments underpin excellent competitive position of BU PBR's production sites (1/2)

Production site	Strong set-up drives organic growth
Dormagen – Germany	 Debottlenecking of ~15kt Nd-PBR Streamlined, highly reliable single line Nd-PBR operation Plant serves primarily the tire market Lowest energy consumer within BU PBR 100% of butadiene demand supplied by pipeline
Port Jérôme – France	 High degree of flexibility to produce high-performance PBR Low environmental footprint with state of the art technology Most modern and automated PBR manufacturer within LANXESS Capability to produce specialized PBR's High share of butadiene supplied by pipeline
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Strategic investments underpin excellent competitive position of BU PBR's production sites (2/2)

Production site	Strong set-up drives organic growth
Cabo – Brazil	 Expanding Nd-PBR production capacity by ~20kt Using latest LANXESS technology Capability to produce functionalized SSBR products Located in high-growth region Overall balanced butadiene supply
Orange – USA	 Debottlenecking of ~15kt Nd-PBR production capacity Largest merchant market manufacturer of PBR products Capability to produce all standard PBR grades offered by LANXESS Excellent infrastructure along the Gulf Coast Fully supplied by two butadiene pipelines

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LANXESS rubber know-how is a benchmark in the industry

- LANXESS with more than 100 years of expertise is the inventor of synthetic rubber:
 - Many patent applications for enhanced rubber properties in the pipeline
 - Full innovation pipeline is capitalized quickly by strict time-tomarket strategy
 - Fostering innovations hand in hand with industry leading customers and research institutes

"Tire Industry Supplier of the Year" awarded by tire technology expo underpins LANXESS innovation excellence





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Rubber market in transition towards higher performance – BU PBR prepared to grow disproportionately





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