Synthetic Rubber Overview

By Juan Ramon Salinas & Roxanna B. Petrovic. International Institute of Synthetic Rubber Producers Goa, India, March 2016



Topics

- O About IISRP
- O SR Market Structure
- O SR Supply & Demand Zoom in China
- O SR Market Drivers
- Tire Technology Driver Emissions Legislations



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About IISRP



Mission

....fostering the growth and consumption of the synthetic rubber...

Members

- +50 Corporate Members
- +20 Countries
- 70% SR global production



About IISRP

International President 2015-2016





Gregory Nelson EW Copolymer



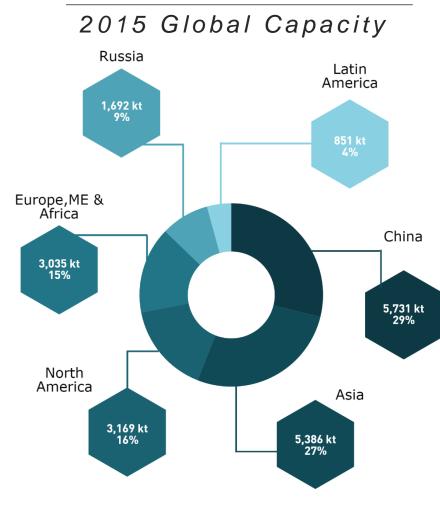
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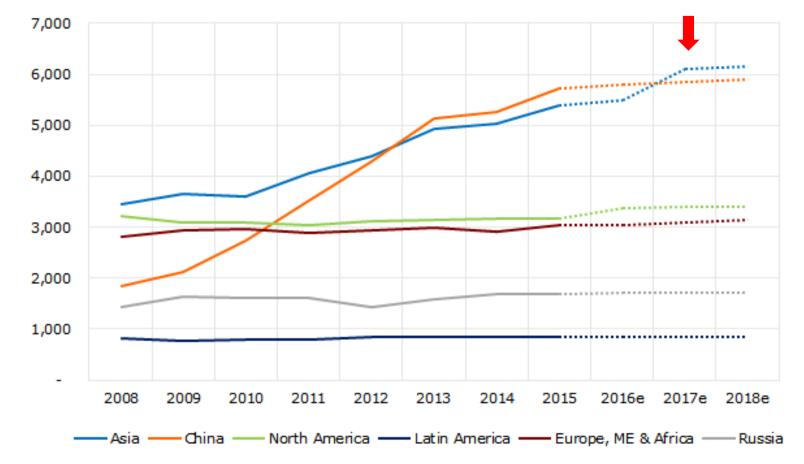
Total: 19,864 kt





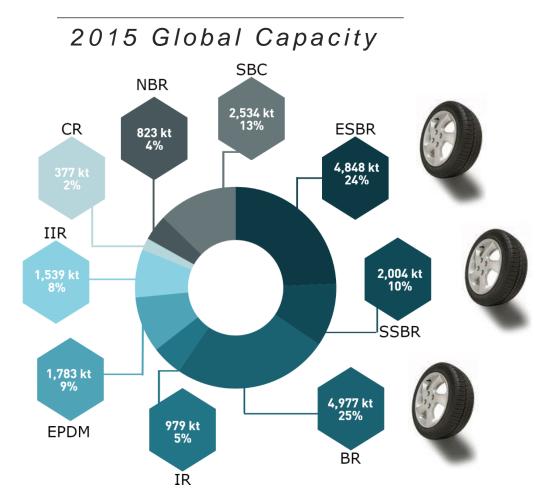
India Rubber Meet 2016

Capacity Expansions, kt





India Rubber Meet 2016

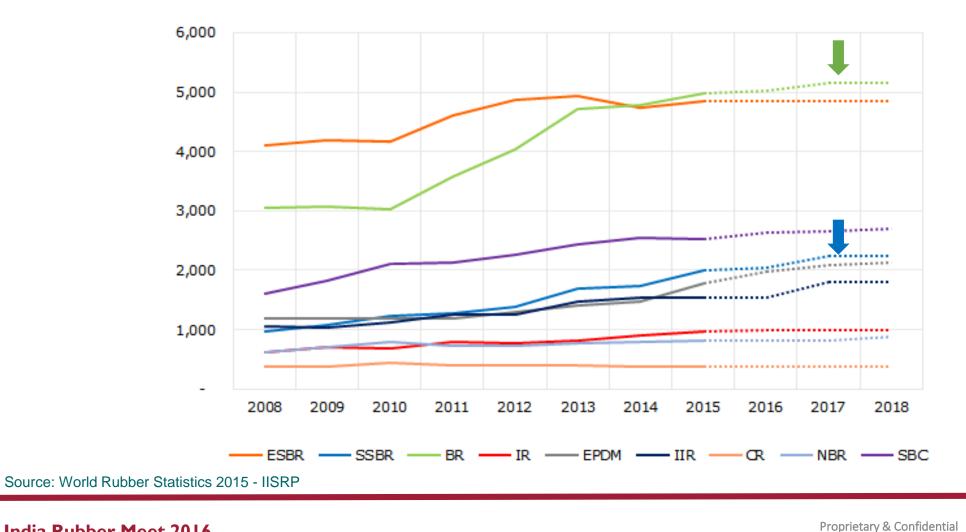


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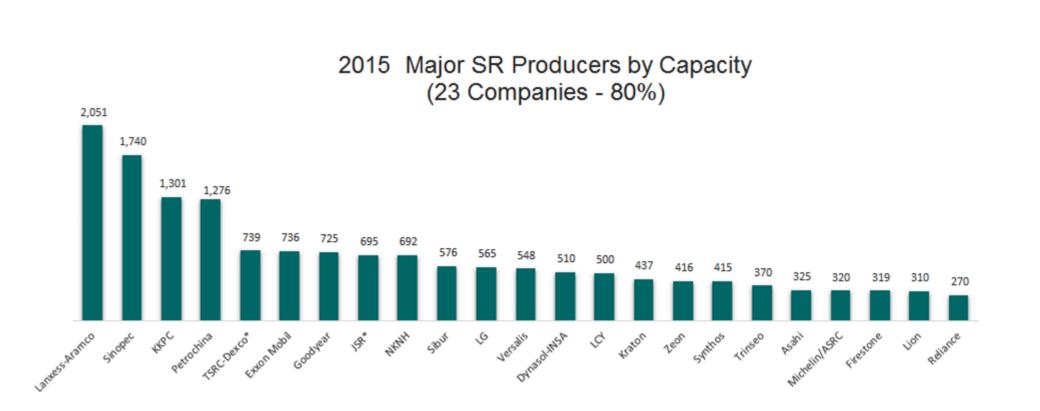


Capacity Expansions, kt





India Rubber Meet 2016



Source: World Rubber Statistics 2015 - IISRP



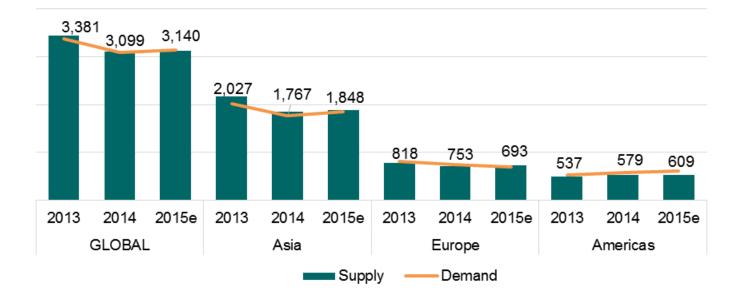
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BR Supply & Demand, kt

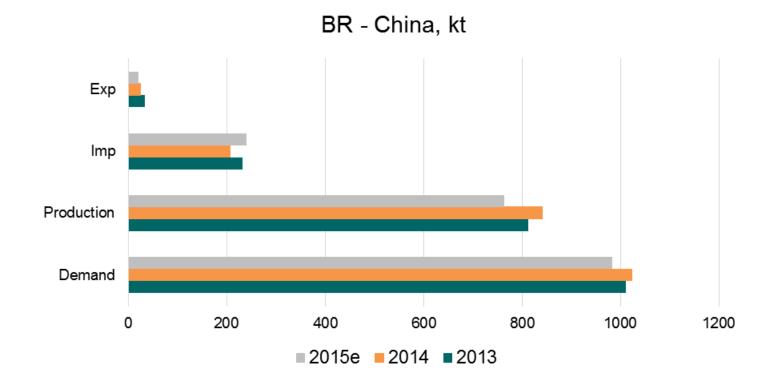


BR 2015 Global Capacity = 4,977 kt (63% operating rate)



Source: Quarterly Report – IISRP.





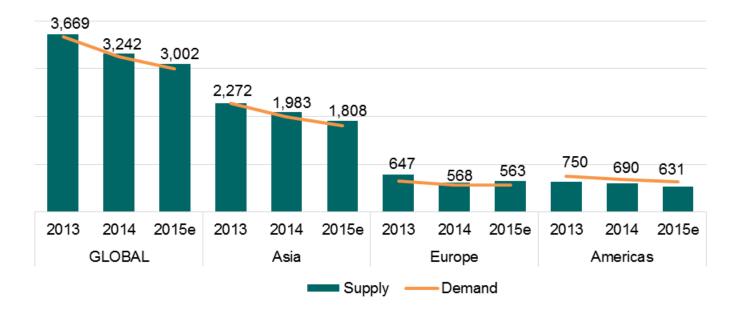
BR 2015 China Capacity = 1,740 kt (44% operating rate)



Source: IISRP - China.



ESBR Supply & Demand, kt

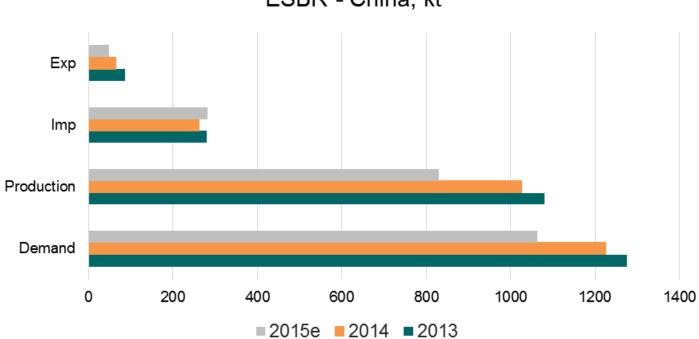


ESBR 2015 Global Capacity = 4,848 kt (64% operating rate)



Source: Quarterly Report – IISRP.





ESBR - China, kt

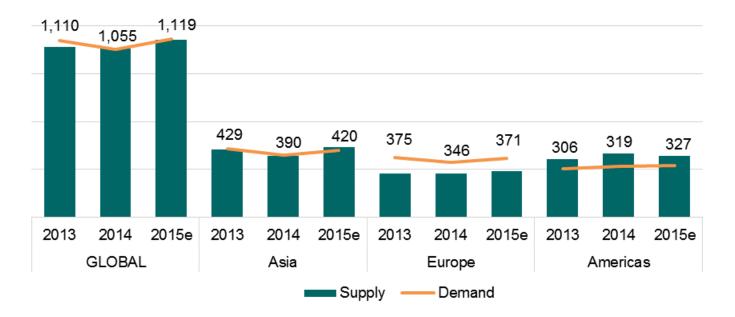
ESBR 2015 China Capacity = 1,450 kt (57% operating rate)



Source: IISRP - China.



SSBR Supply & Demand, kt



SSBR 2015 Global Capacity = 2,004 kt (56% operating rate)



Source: Quarterly Report – IISRP.



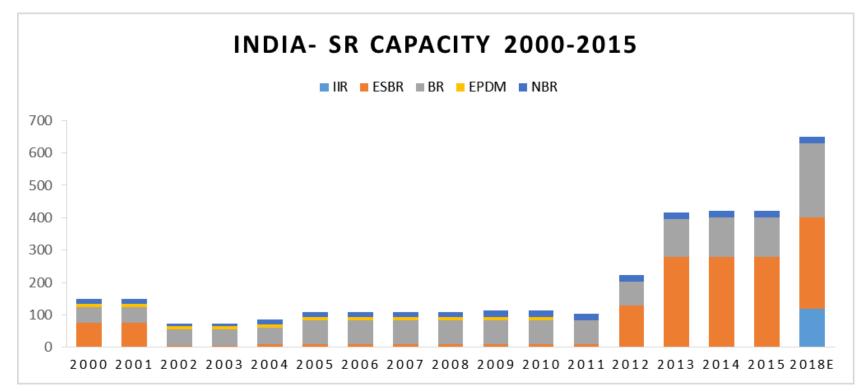
SSBR - China, kt

SSBR 2015 China Capacity = 263 kt (22% operating rate)



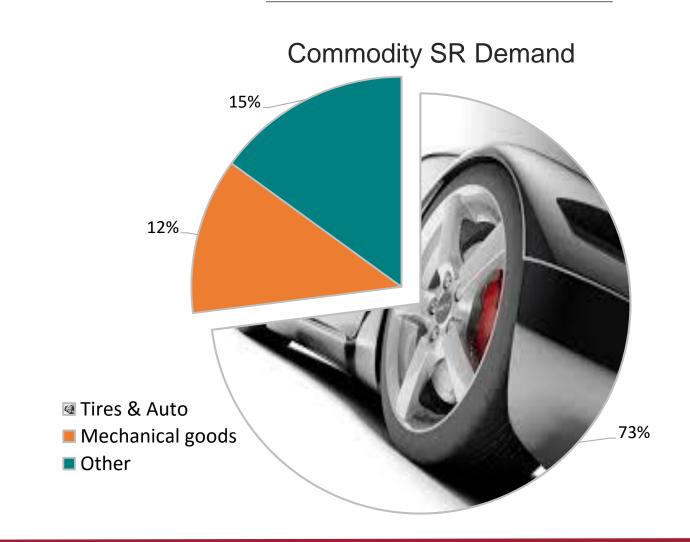
Source: IISRP - China.





- By the end of 2015 SR Capacity in India reached around 420 kt/year
- Domestic SR producers are ramping-up production based on approvals from tire markets
- India is expected t become self-sufficient between 2017 2018 reaching around 650 kt/year (+120 kt IIR JV Reliance/Sibur, +110kt BR Gail).
- India's SR Consumption estimations by IISRP: 480 kt 2014, and 500 kt by the end of 2015
- India is importing around 300 kt of SR, so imports will decreased as the new capacity operating rates rampsup.
- SR Consumption trend is driven by the GDP (higher exports and investor confidence boosted by new structural reforms)





Proprietary & Confidential

Topics

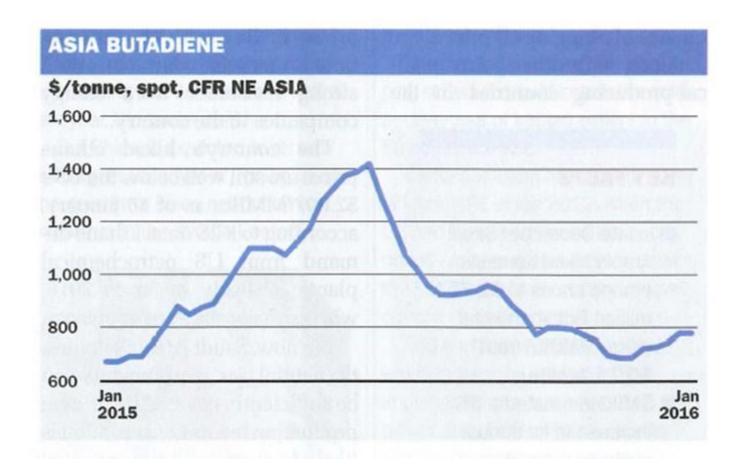
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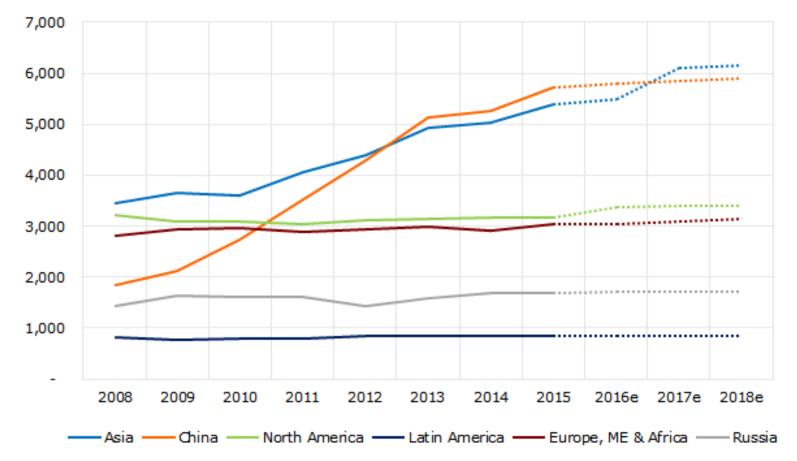
38 | ICIS Chemical Business | 23 November-6 December 2015







Capacity Expansions, kt







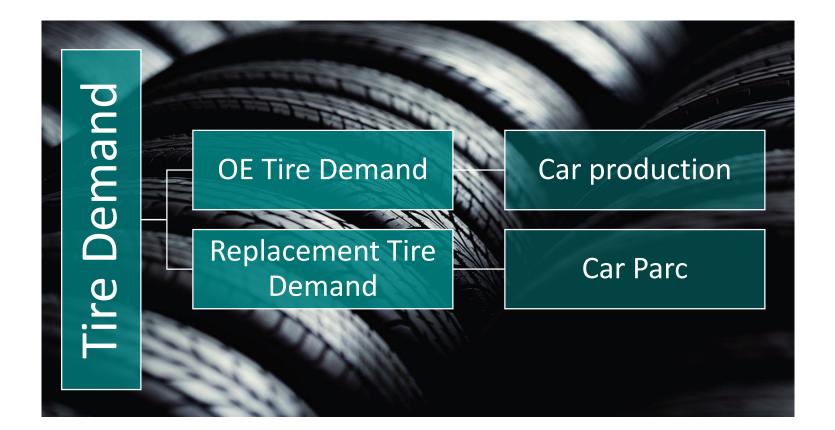






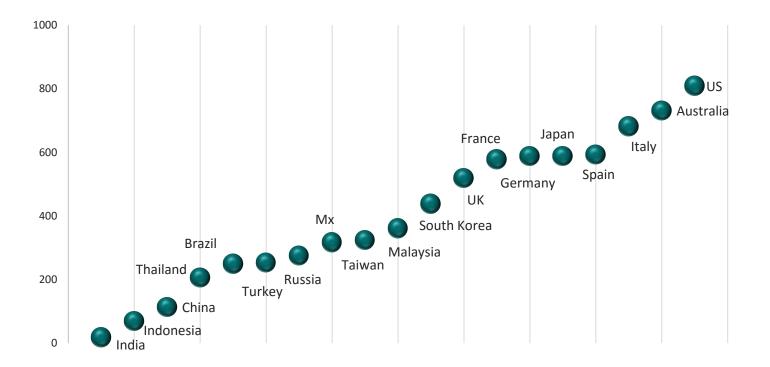








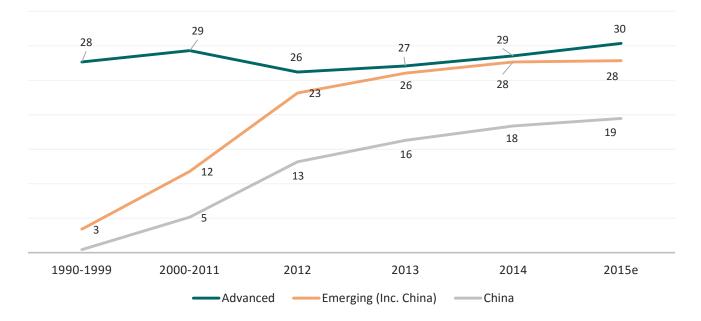
Vehicles per capita (vehicles/1000 people)





Source: Wikipedia.org

Car Sales (millions of units)





Source: Scotiabank Economics – Global Auto Report - Nov 2015.

Topics

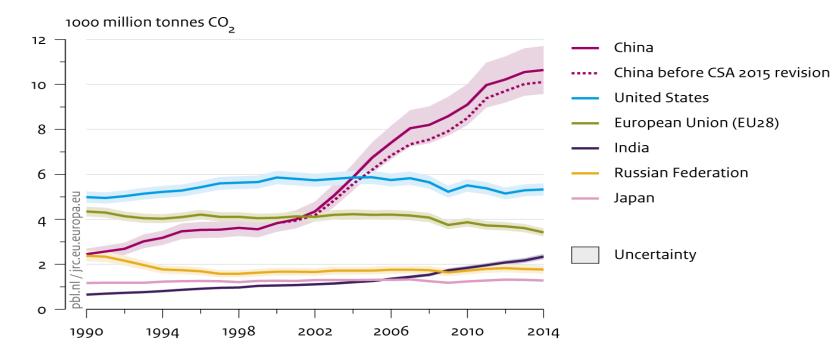
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Tire Technology Driver - Emissions Legislations

Top 5 emitting Countries and - EU 1990 - 2014

CO₂ emissions from fossil-fuel use and cement production in the top 5 emitting countries and the EU



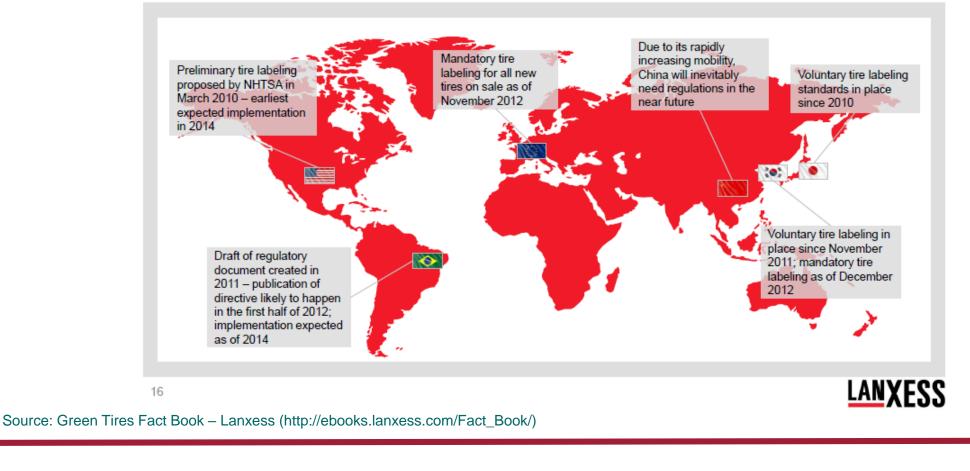
Source: EDGAR 4.3 (JRC/PBL, 2015) (1970-2012; notably IEA 2014 and NBS 2015); FT2014 (2013-2014): BP 2015; GGFR 2015; USGS 2015; WSA 2015

Source: Emissions database for Global Atmospheric Research (European Commission).



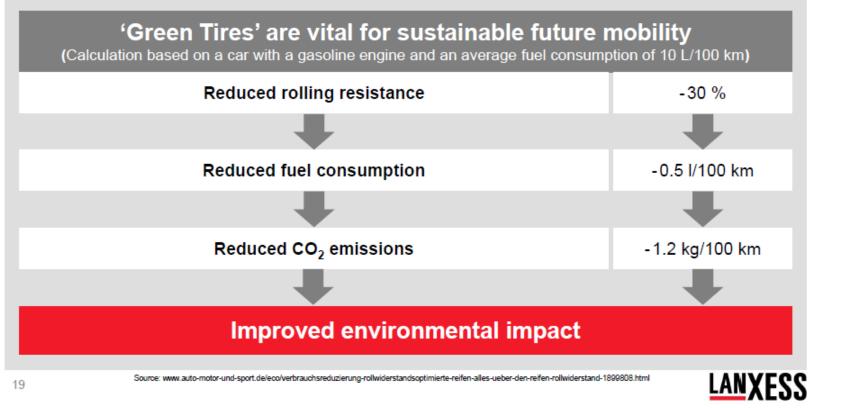
Tire Technology Driver - Emissions Legislations

Emergence of worldwide adoption of tire regulations and implementation of tire labeling



Tire Technology Driver - Emissions Legislations

Environemtal impact of 'Green Tires'



Source: Green Tires Fact Book – Lanxess (http://ebooks.lanxess.com/Fact_Book/)

Closing





Thank You / आपको बहुत बहुत धन्यवाद



International Institute of Synthetic Rubber Producers

