

# versalis innovation in portfolio

## DUTRAL®: development of a new catalyst system

After years of internal development versalis is ready to **scale up** an improved Z-N catalyst



**Traditional Catalyst System:** very versatile, able to produce from very low to very high Molecular Weight, from low to high Ethylene and ENB content

The **New Catalyst System** keeps the versatility of the traditional one, significantly increases the polymerization yield, improves undesirable addition to obtain better distribution inside the polymer chain, reduces undesirable side reactions



- Higher polymerization yield
- Cleaner products
- Better monomer distribution and side reactions control
- Lower up to no gel
- Better consistency
- Better curing efficiency



Widening the polymer design

- New polymer structures
- Improved processability

This new catalyst is **currently under intensive test** on industrial scale



## DUTRAL®: development of new grades

### Dutral® TX 1301 (D. TER 4548)

- The highest MW Dutral® grade
- 100 phr of highly purified paraffinic oil
- FDA complaint
- Developed for TPV applications



### Dutral® TX 1401 (D. TER 8148)

- Very High ENB content (8,5%)
- High MW
- Amorphous grade
- Developed for **Auto Sponge Profiles** applications



### Dutral® TX 1501 (D. TER 7040)

- High ENB content (6,5%)
- High MW
- Dry Amorphous grade
- Developed for **GP highly filled profiles**



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