



## The solution for high-performance rubber compounds


Unilene<sup>®</sup>, Braskem's hydrocarbon resin, offers technical and economic advantages in the processing of rubber formulations and in the performance of finished goods. Its main characteristics include compatibility with a wide range of polymeric materials and applications in rubber compounds in general, such as tires, retreads, injected and extruded parts.

## Processing benefits


- Reduces compound viscosity
- Enables higher filler amounts
- Reduces degradation of elastomers
- Reduces energy consumption and equipment wear
- Tackifying agent
- Plasticizer
- Avoids formation of lumps

### ▪ Flow agent

Images are merely illustrative



WITHOUT  
Braskem Unilene®  
- FLOW



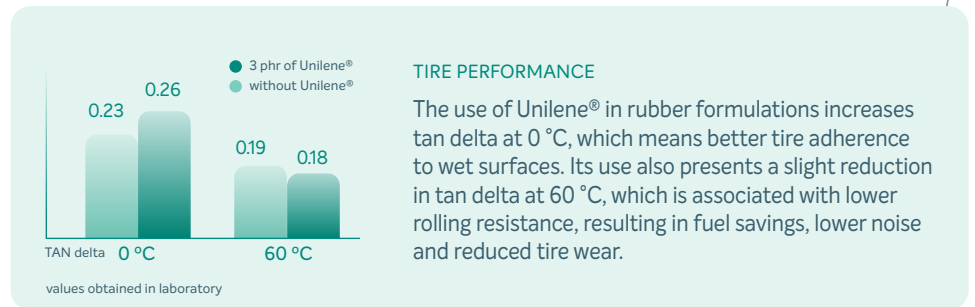
WITH  
Braskem Unilene®  
+ FLOW

**MOLD FILLING**  
Improved mold filling with lower pressure on equipment.

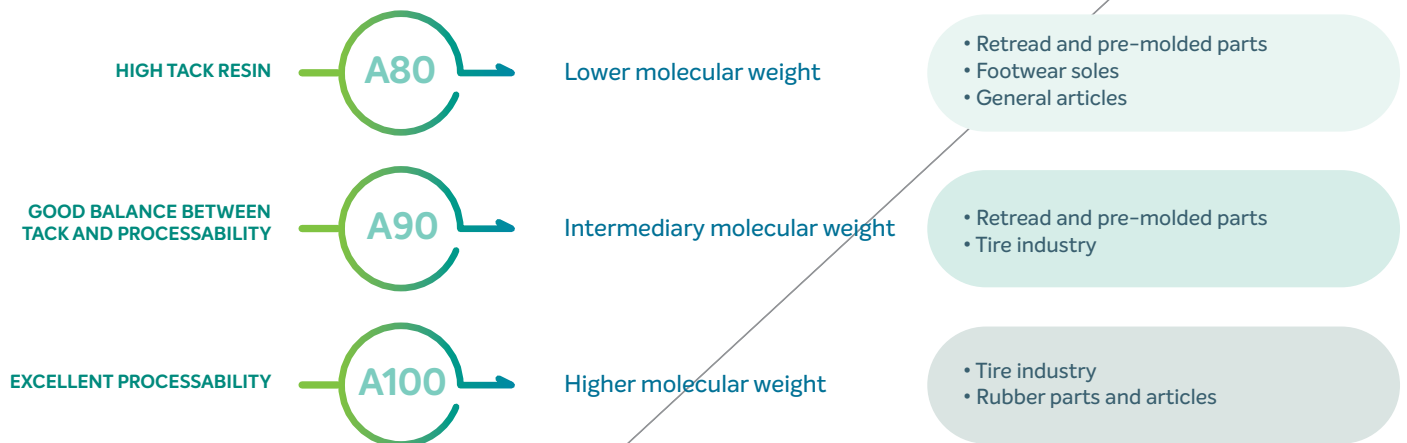
## Benefits for finished goods

- Superior mechanical properties
- Better surface finish and gloss
- Lower failure rate caused by weak points
- Lower abrasion wear

### ▪ Better balance between grip and friction



## Series A – Rubber



## Technical properties

Unilene® Hydrocarbon Resins – C9		T <sub>g</sub> , °C (ASTM D 6604)	Softening Point RB (°C) (ASTM D 6493)	Gardner Color (ASTM D 6166)	Acid Number (ASTM D-974)
Series A (high styrene content)	A-80	42	75 - 86	7 max	< 0.10
	A-90	45	87 - 95	7 max	< 0.10
	A-100	54	96 - 105	6 max	< 0.10