

Low-Cis Polybutadiene Rubber (Low-cis BR)

Butadiene elastomers are characterized by an excellent resistance to abrasion, good resistance to fatigue cracking and crack growth. Their extremely low glass transition temperature provides enhanced low temperature performance compared to other general-purpose rubbers.

LVE Intene® low-cis polybutadienes are produced by solution polymerization in an aliphatic solvent, thus greatly improving the environmental friendliness of the whole process.

All Intene® grades are produced by a continuous process using a Lithium-based catalyst system determining the (micro) structure of the final product.

In the case of the grade Intene® K C30AF, a coupling agent is used to obtain a star-branched structure.

Low-cis BR (both linear and branched) has become the product of choice for the industrial modification of plastics in High Impact Polystyrene (HIPS) or Acrylonitrile-Butadiene-Styrene (ABS) and it is also widely used for all types of tires.

INTENE® Low-cis BR

GRADE NAME	Cis Content %wt	Viscosity 5% in Styrene 25°C	Color (b*) max	Stabilizer	Main Application
INTENE K 30AF	38	65	5	Food approved	HIPS (high gloss) / ABS
INTENE K 40AF	38	100	5	Food approved	HIPS (medium gloss) / ABS
INTENE K 50AF	38	170	5	Food approved	HIPS
INTENE K 50AD	38	170	5	Food approved	HIPS
INTENE K 60AF	38	250	5	Food approved	HIPS (super impact / ESCR)
INTENE K C30AF	38	42	5	Food approved	HIPS (high gloss), ABS, Tire

AF/AD bales wrapped with polystyrene film

INTENE® Low-cis BR

GRADE NAME	Cis Content %wt	Mooney Viscosity ML(1+4)@100°C	Stabilizer	Main Application
INTENE K 50	38	48	Non Staining	Tire

wrapped with polyethylene film