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Technical Data Sheet

MATERIAL: Polybutadiene, cis

CATALOG NUMBER: 571

CAS NUMBER: 9003-17-2

DESCRIPTION: Certified geometrical isomer content

FORMULA: $(C_4H_6)_x$

TYPICAL PROPERTIES:

 Appearance:
 Solid

 Cis:
 98.5%

 Trans:
 0.4%

 Vinyl:
 1.1%

 Approx Mw:
 200,000

 Refractive index:
 np25 1.5200

Inherent viscosity: 1.86

Solubility: Benzene, THF, toluene

GENERAL INFORMATION: Polybutadiene [butadiene rubber BR] is a synthetic rubber.

Polybutadiene rubber is a polymer formed from the polymerization of the monomer 1,3-butadiene. Polybutadiene has a high resistance to wear and is used especially in the manufacture of tires. Polybutadiene as also used as an additive to improve the toughness (impact resistance) of plastics such as polystyrene and acrylonitrile butadiene styrene (ABS). It is also used to manufacture golf balls, various elastic objects and to coat or encapsulate electronic assemblies, offering high electrical resistivity.

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