



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:	n_D^{25} 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 is 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.

STRUCTURE: