



Technical Data Sheet

MATERIAL:	Polybutadiene, cis
CATALOG NUMBER:	206
CAS NUMBER:	9003-17-2
DESCRIPTION:	High cis polybutadiene
FORMULA:	$(C_4H_6)_x$

TYPICAL PROPERTIES:

Appearance:	Slab
Cis polybutadiene:	98%
Approx Mw:	200,000
Mooney viscosity:	40
Density:	0.90
Refractive index:	n_D^{25} 1.5200
Flash point:	>572°F
Glass transition temp:	102°C
Solubility parameter:	6.3
Solubility:	Aliphatic, aromatic and cycloaliphatic hydrocarbons, THF

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: