



Technical Data Sheet

MATERIAL: Polybutadiene, cis and trans

CATALOG NUMBER: 052

CAS NUMBER: 9003-17-2

DESCRIPTION: Polybutadiene, mixed isomers

FORMULA: $(C_4H_6)_x$

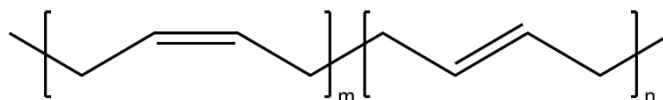
TYPICAL PROPERTIES:

Appearance:	Slab
Cis-1,4	36%
Trans-1,4	55%
Vinyl-1,2	9%
Approx Mw:	200,000
Refractive index:	n_D^{25} 1.5167
Density:	0.90 (25°C)
Mooney viscosity:	51 (100°C)
Glass transition temp:	-96°C
Solubility parameter:	8.38
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:



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