



## Technical Data Sheet

**MATERIAL:** Polybutadiene, phenyl terminated

**CATALOG NUMBER:** 433

**CAS NUMBER:** 9003-17-2

**DESCRIPTION:** Phenyl terminated polybutadiene homopolymer, 80% unsaturation

**FORMULA:**  $(C_4H_6)_x$

**TYPICAL PROPERTIES:**

Appearance:	Viscous liquid
Approx Mn:	1,300
Viscosity:	18 p (50°C)
Density:	0.93 (20°C)
Flash point:	> 500°F
Solubility:	THF, toluene, xylene
Microstructure (%)	
Vinyl 1,2:	45
Trans 1,4:	20
Cis 1,4:	15
Saturated cyclic:	20

**GENERAL INFORMATION:** Low molecular weight polybutadienes containing a high proportion of vinyl 1,2 unsaturation are peroxide curable and find application in ethylene-propylene rubber compositions used in electric cable manufacture and in thermoset moulding, potting and encapsulating compositions for electrical equipment. The cyclic components in the polybutadiene imparts toughness, thermal stability and superior electrical properties to the cured polymers.

**STRUCTURE:**

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