



Technical Data Sheet

MATERIAL: Polyacrylonitrile

CATALOG NUMBER: 134

CAS NUMBER: 25014-41-9

DESCRIPTION: Homopolymer of acrylonitrile

FORMULA: $(C_3H_3N)_x$

TYPICAL PROPERTIES:

Appearance:	Powder
Approx Mw:	150,000
Refractive index:	n_D^{25} 1.5187
Density:	1.184
Glass transition temp:	125°C
Melting point:	317°C
Relative viscosity:	1.45
Solubility parameter:	15.4
Solubility:	Adiponitrile, DMAC, DMF, DMSO

GENERAL INFORMATION: Can be cast from solvent to produce a tough, durable, dimensionally stable plastic resistant to acids, brine, aliphatic hydrocarbons, ultraviolet light, etc.

STRUCTURE:

