



## Technical Data Sheet

<b>MATERIAL:</b>	Nylon 6/6
<b>CATALOG NUMBER:</b>	033
<b>CAS NUMBER:</b>	32131-17-2
<b>DESCRIPTION:</b>	Poly(hexamethylene adipamide)
<b>FORMULA:</b>	$(C_{12}H_{22}N_2O_2)_x$

**TYPICAL PROPERTIES:**

Appearance:	Pellets
Viscosity avg Mw:	20,000
Density:	1.30
Glass transition temp:	45°C
Melting point:	254°C
Flash point:	752°F
Refractive index:	$n_D^{20}$ 1.565
Solubility parameter:	13.6
Solubility:	m-Cresol

**GENERAL INFORMATION:** Prepared by the polycondensation of hexamethylene diamine and adipic acid. Due to its inherent toughness and solvent resistance, nylon 6/6 is used in a variety of commercial applications such as carpets, clothing, tires, wire coating, bearings, gears, and housings.

**STRUCTURE:**