



Technical Data Sheet

MATERIAL: Poly(p-phenylene ether sulphone)

CATALOG NUMBER: 391

CAS NUMBER: 25608-63-3

DESCRIPTION: Polyethersulphone

FORMULA: $(C_{12}H_{10}O_4S \cdot C_{12}H_8Cl_2O_2S)_x$

TYPICAL PROPERTIES:

Appearance:	Pellets
Refractive index:	n_D^{20} 1.65
Density:	1.37
Melt flow index:	3.9 g/10min (320°C)
Vicat softening point:	226°C
Solubility:	Aromatic amines, highly polar aromatics (i.e. DMSO, NMP), nitrobenzene, and certain chlorinated hydrocarbons, (i.e. chloroform, methylene chloride)

GENERAL INFORMATION: Poly(p-phenylene ether sulphone) is an amorphous thermoplastic which offers a unique combination of properties. Key properties include thermal stability, an ability to withstand loads for long periods at 180°C, retention of mechanical and electrical properties up to 210°C, and low flammability. Can be used in extrusion, injection molding, and solution coating processes. Typical applications include electrical components, automotive components, and various miscellaneous housings where a combination of chemical resistance and high temperature properties are required.

STRUCTURE: