



DIC Engineering Plastics (DIC EP)

DIC-PPS for Fuel Applications

Characteristics & Uses of DIC-PPS



Superior Properties

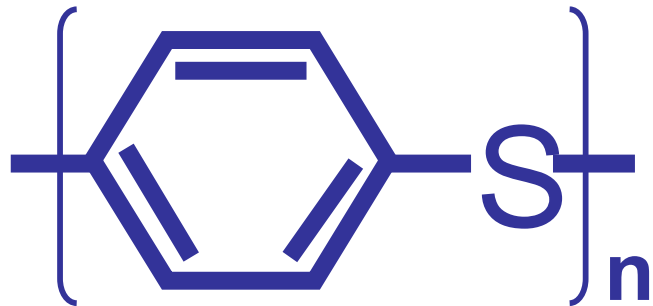
Heat resistance - long term service temperature up to 240°C
UL94 V-0 - flammability without flame retardant
Excellent Dimensional stability,
- low water absorption & low thermal expansion
Superior strength & modulus
Chemical resistance equal to PTFE

Target

Alternative to Metals
Alternative to Thermo-set resins

Used for

Automotive parts
E & E parts
Home appliances



DIC-PPS are compounds based on PPS resin (Polyphenylene sulfide)

DIC-PPS meets the key requirements for Fuel Applications



- ✓ Generally Low Swelling, Low Dimensional and Low Weight Change
 - ✓ Chemical and Temperature Resistance
 - ✓ Good Mechanical Properties at elevated temperatures
 - ✓ Excellent Thermal Shock Property
 - ✓ Very good Fatigue Resistance
 - ✓ **Low Swelling** Materials and **Extrusion** Materials available
- ➔ DIC-PPS with its outstanding properties is the material of choice for various fuel applications

Low Swelling DIC-PPS for Fuel Pump Impellers



The main concepts of the low swelling DIC-PPS are based on...

- Optimized spherulite structure of PPS polymer
- Balanced content of mineral filler

Two low swelling DIC-PPS versions are available:

Standard and ***High Flow*** type.

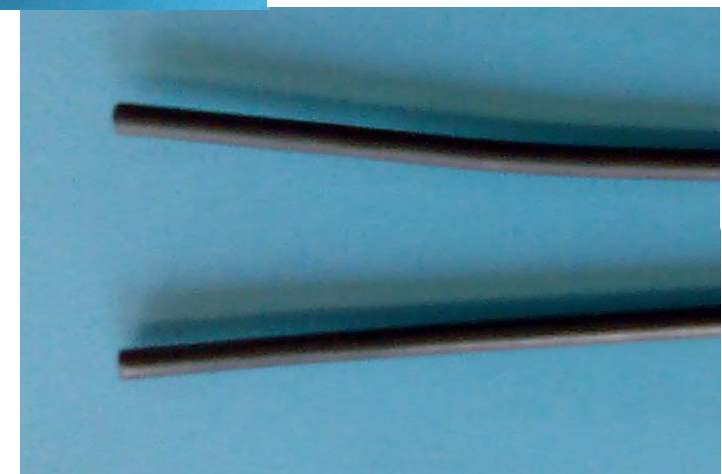
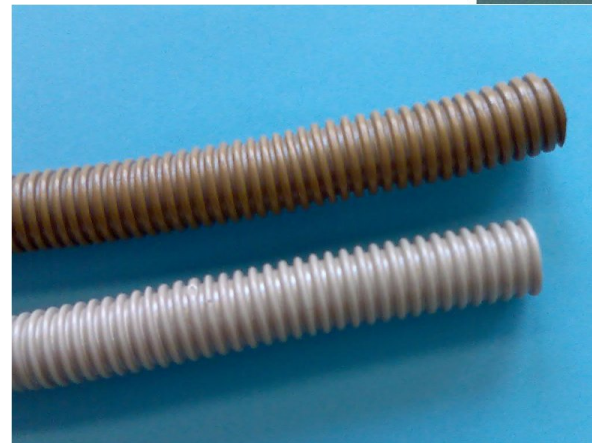
Detailed presentation is available upon request.

Tube Applications



Extrusion Applications

- Target
 - Fuel Lines
 - Corrugated Fuel Lines
- Requirements
 - Extrudable material
 - Heat resistance
 - Chemical resistance
- Recommendable Material
 - Several Unreinforced Series
 - Materials for **Multi Layer** Fuel Lines available





Thank you very much for your attention!

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