

## mPLASTICS PEEK and PPS Products

**Fluon+™ mPLASTICS** are a series of PEEK and PPS products which have been modified using AGC's proprietary fluoropolymer and compounding technology. The fluoropolymer modification improves the impact and wear resistance of the PEEK and PPS resins, as well as their physical and electrical properties.

Fluon+ mPLASTICS can be processed via conventional PEEK and PPS molding methods, such as extrusion or injection molding. Potential applications may be hose or tube, wire and cable, gears, sealing, or other markets where high temperature and chemical resistance are required.

### Common Products

Modified PEEK	Level of modification		
mPEEK - 1100 Series	Mid-modification		High-modification
mPEEK - 2000 Series			
mPEEK - 2200 Series			
Modified PPS	Level of modification		
mPPS - 1000 Series	Low-modification	Mid-modification	High-modification

### Typical Applications

#### Extruded Moldings

- Film for electrical insulation
- Wire and cable
- Tube

#### Injection Moldings

- Gear member
- Bearing retainer
- Casing
- Case body

#### Gaskets Cutting and Processing

- Plate / sheet
- Round / cylindrical bar

### Processing Techniques

- Extrusion
- Injection molding
- Pressure molding



## Typical Physical Properties Measured

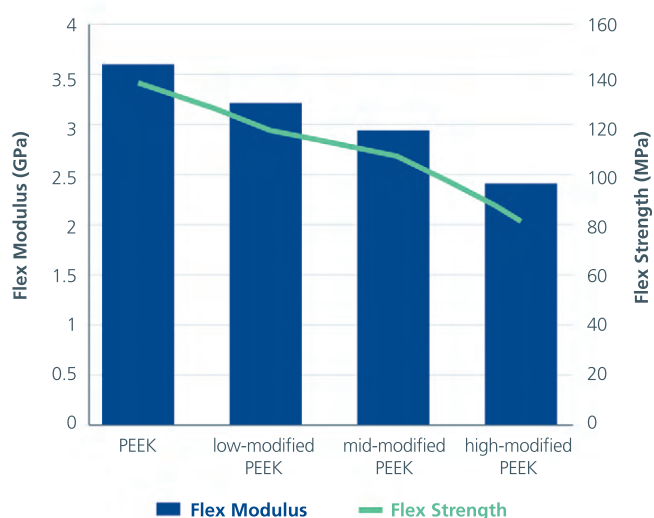
Property	Test Method	Units	Typical Value*	
			neat PEEK	KB-2220
Tensile Strength	ASTM D-638	MPa	100	78
Tensile Elongation	ASTM D-638	%	111	99
Flexural Strength	ASTM D-790	MPa	125	105
Flexural Modulus	ASTM D-790	GPa	3	2.5
MIT Flex Life	JIS P8115	cycles	122	1800
Heat Deflection Temperature	JIS F07191	°C	141	147
Dielectric Constant	ASTM D-2520	2.45 Ghz	3.1	3

\*unannealed

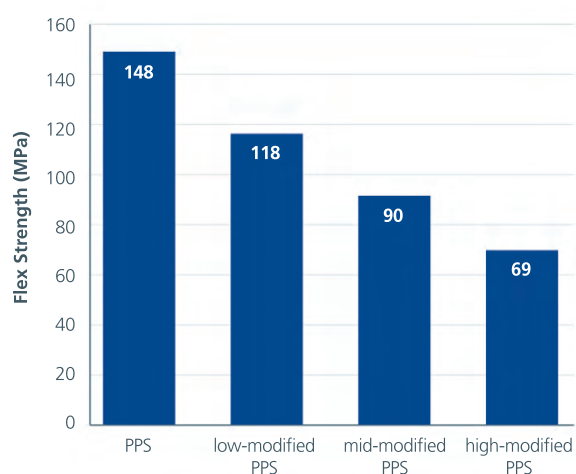


Improves physical and electrical properties

## Flexural Properties of mPEEK



## Flexural Properties of mPPS



Contact your AGC Chemicals commercial representative for more information on specific grades or for technical datasheets.



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Visit our website for compliance information and industry certifications.

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