

Mitsubishi Chemical Advanced Materials PPSU LSG Extruded (ISO Data)
Categories: Polymer; Thermoplastic; Polyphenylsulfone (PPSU)

Material Notes: Within its portfolio of Life Science Grade Engineering Plastic Products - specifically developed for applications in the medical, pharmaceutical and biotechnology industries - Mitsubishi Chemical Advanced Materials offers LSG PPSU biocompatible engineering plastic stock shapes for machining (several colours) with certified USP Class VI and/or ISO 10993 compliance

- 1 High maximum allowable service temperature in air (180°C continuously)
- 1 Good chemical and excellent hydrolysis resistance (suitable for repeated steam sterilization)
- 1 High stiffness over a wide temperature range
- 1 Very high impact strength
- 1 Physiologically inert (suitable for food contact)
- 1 High dimensional stability
- 1 Very good resistance against high energy radiation (gamma- and X-rays)
- 1 Good electrical insulating and dielectric properties

Quadrant Engineering Plastic Products is now Mitsubishi Chemical Advanced Materials.

Mechanical Properties	Metric	English	Comments
K Factor (ISO)	2500 µm/km	2500 µm/km	
Coefficient of Friction, Dynamic	0.40 - 0.50	0.40 - 0.50	
Compliance Properties	Metric	English	Comments
3A-Dairy	No	No	
USP Class VI	Yes	Yes	only black
Chemical Resistance Properties	Metric	English	Comments
Acids, Strong (pH 1-3)	Limited	Limited	
Acids, Weak	Acceptable	Acceptable	
Alcohols	Limited	Limited	
Alkalies, Strong (pH 11-14)	Acceptable	Acceptable	
Alkalies, Weak	Acceptable	Acceptable	
Chlorinated Solvents	Unacceptable	Unacceptable	
Continuous Sunlight	Limited	Limited	
Hot Water / Steam	Acceptable	Acceptable	
Hydrocarbons - Aliphatic	Acceptable	Acceptable	
Hydrocarbons - Aromatic	Limited	Limited	
Inorganic Salt Solutions	Acceptable	Acceptable	
Ketones, Esters	Unacceptable	Unacceptable	


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