

Mitsubishi Chemical Advanced Materials PC LSG Extruded (ISO Data)

Categories: Polymer; Thermoplastic; Polycarbonate (PC); Polycarbonate, Extruded

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 PC natural biocompatible engineering plastic stock shapes for machining with certified USP Class VI and ISO 10993 compliance

- 1 High mechanical strength
- 1 Good creep resistance
- 1 Very high impact strength, even at low temperatures
- 1 Stiffness retention over a wide range of temperatures
- 1 Very good dimensional stability (very low water absorption and low coefficient of linear thermal expansion)
- 1 Natural colour (clear, translucent)
- 1 Good electrical insulating and dielectric properties
- 1 Physiologically inert (suitable for food contact)
- 1 Economical thermal performance

Quadrant Engineering Plastic Products is now Mitsubishi Chemical Advanced Materials.

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|-------------|-------------|----------|
| K Factor (ISO) | 60 µm/km | 60 µm/km | |
| Coefficient of Friction, Dynamic | 0.50 - 0.60 | 0.50 - 0.60 | |

| Compliance Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| 3A-Dairy | No | No | |
| USP Class VI | Yes | Yes | |

| Chemical Resistance Properties | Metric | English | Comments |
|--------------------------------|--------------|--------------|----------|
| Acids, Strong (pH 1-3) | Unacceptable | Unacceptable | |
| Acids, Weak | Limited | Limited | |
| Alcohols | Limited | Limited | |
| Alkalies, Strong (pH 11-14) | Unacceptable | Unacceptable | |
| Alkalies, Weak | Limited | Limited | |
| Chlorinated Solvents | Unacceptable | Unacceptable | |
| Continuous Sunlight | Limited | Limited | |
| Hot Water / Steam | Limited | Limited | |
| Hydrocarbons - Aliphatic | Acceptable | Acceptable | |
| Hydrocarbons - Aromatic | Unacceptable | Unacceptable | |
| Inorganic Salt Solutions | Acceptable | Acceptable | |
| Ketones, Esters | Unacceptable | Unacceptable | |



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