

Mitsubishi Chemical Advanced Materials PC LSG 1000 Extruded Unfilled Polycarbonate
Categories: Polymer; Thermoplastic; Polycarbonate (PC); Polycarbonate, Extruded

Material Notes: Quadrant Engineering Plastic Products is now Mitsubishi Chemical Advanced Materials.

Key Words: Life Science Grade Polycarbonate

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	IMMERSION, 24 HRS.
Water Absorption at Saturation	0.40 %	0.40 %	ASTM D150
Mechanical Properties	Metric	English	Comments
Tensile Strength	72.4 MPa	10500 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Tensile Modulus	2.21 GPa	320 ksi	ASTM D638
Compressive Strength	79.3 MPa @ Strain 10.0 %, Temperature 22.8 °C	11500 psi @ Strain 10.0 %, Temperature 73.0 °F	ASTM D695
Compressive Modulus	2.07 GPa	300 ksi	ASTM D695
Shear Strength	63.4 MPa	9200 psi	ASTM D732
Electrical Properties	Metric	English	Comments
Dielectric Constant	3.17	3.17	ASTM D150
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D149
Dissipation Factor	0.00090	0.00090	ASTM D150
Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.186 W/m-K	1.29 BTU-in/hr-ft ² -°F	
Glass Transition Temp, T _g	145 °C	293 °F	ASTM D 3418



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