

Mitsubishi Lupilon[®] ELV 2030

15% filler. Wear resistance improved grade. Used in a wide range of industries, including sports equipment, medical equipment, automobiles, optics, machinery, office automation equipment, and electronics.

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.10 % @Temperature 23.0 °C	0.10 % @Temperature 73.4 °F	Immersion
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	
Melt Flow	9.1 g/10 min @Load 1.20 kg, Temperature 300 °C	9.1 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa	7400 psi	ISO-527-1,2
Elongation at Break	85 %	85 %	ISO 527-1,2
Elongation at Yield	6.2 %	6.2 %	ISO 527-1,2
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-1,2
Flexural Strength	81.0 MPa	11700 psi	ISO 178
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179-1,2
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179-1,2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	100 - 175 V	100 - 175 V	UL746A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	38.3 $\mu\text{in}/\text{in}^{\circ}\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	40.0 $\mu\text{in}/\text{in}^{\circ}\text{F}$	ISO 11359-2
Maximum Service Temperature, Air	120 $^{\circ}\text{C}$	248 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	143 $^{\circ}\text{C}$	289 $^{\circ}\text{F}$	ISO 75-1,2
Deflection Temperature at 1.8 MPa (264 psi)	128 $^{\circ}\text{C}$	262 $^{\circ}\text{F}$	ISO 75-1,2
Minimum Service Temperature, Air	-40.0 $^{\circ}\text{C}$	-40.0 $^{\circ}\text{F}$	
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	