

Material Properties

Liquid Crystal Polymer (Vectra®)

High temperature Liquid Crystal Polymer (LCP) plastic exhibits excellent mechanical strength and dimensional stability, high dielectric strength and low coefficient of thermal expansion. Provided in a standard off-white color or black (referenced by a "-B" suffix in the part number), it can be used continuously at 280°C (536°F), has a melt point of 335°C (635°F), is inherently flame retardant and meets the flammability requirements of UL 94V-O.

Vectra® is a registered trademark of Hoechst Celanese Corporation.

Mechanical Properties

Compressive Strength	20,000 psi
Flexural Strength	32,000 psi
Flexural Modulus	2.1 x 10 ⁶ psi
Izod Impact Strength	3.9 ft. Lb./in.
Shear Strength	17,800 psi
Tensile Strength	30,000 psi
Elongation1.7%
Heat Distortion	536°F (280°C) @ 264 psi
Coefficient of Linear Thermal Expansion	
-50°C to 200°C, Flow direction	1 cm/cm/°C x 10 ⁻⁶
Specific Gravity	1.62
Water Absorption, to equilibrium	0.04%
Flammability	UL94 V-0 @ 0.031 thick

Electrical Properties

Arc Resistance	130 sec.
Dielectric Strength Short Term	1050V/MIL (1/6 in.)
Dielectric Constant	3.7 @ 1MHz
Dissipation Factor	0.03 @ 1MHz
Volume Resistance	1014 (ohm/cm)



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