

Product Texts

VALOX VC120 compound is based on Polybutylene Terephthalate (PBT) resin containing 20% carbon fiber. Added features of this grade include: Electrically Conductive, Flame Retardant.

UL Yellow Card Link [E45587-236842](https://www.ul.com/yellowcard/E45587-236842)

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Flexural Modulus	12060	MPa	ASTM D 790
Flexural Strength	216	MPa	ASTM D 790
Izod Impact notched, 1/8 in	88	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	206	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E8	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1470	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	235 - 255	°C	-
Mold temperature	50 - 130	°C	-
Zone 1	225 - 245	°C	-
Zone 2	230 - 250	°C	-
Zone 3	235 - 255	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Increased electrical conductivity, Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific