LUVOCOM 50/CF/10/GF/10/TF/10/BK

(PC+PTFE)-(CF+GF) LEHVOSS Group

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**25**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
Thermal conductivity of melt	**0.42**	W/(m K)	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**9000**	MPa	ISO 527
Tensile Strength	**120**	MPa	ISO 527
Flexural modulus, 23°C	**8000**	MPa	ISO 178
Charpy impact strength, -30°C	**35**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**13**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**10**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**152**	°C	ISO 75-1/-2
Vicat softening temperature, A	**160**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**25**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**V-1**	class	IEC 60695-11-10

Electrical properties	Value	Unit	Test Standard
ISO Data			
Surface resistivity	**100000**	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	**1380**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**295**	°C	-
Mold temperature	**80 - 120**	°C	-
Zone 1	**280 - 300**	°C	-
Zone 2	**290 - 310**	°C	-
Zone 3	**300 - 320**	°C	-
Nozzle temperature	**290 - 310**	°C	-

Characteristics

Processing
Injection Molding

Applications
Electrical and Electronical, Medical, Sports Equipment

Delivery form
Black

Regional Availability
North America, Europe, Asia Pacific

Special Characteristics
Increased electrical conductivity