

LUVOCOM 1105-7185

(PEEK+PTFE)-CF

LEHVOSS Group

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	10	g/10min	ISO 1133
Temperature	380	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Thermal conductivity of melt	0.45	W/(m K)	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12000	MPa	ISO 527
Tensile Strength	140	MPa	ISO 527
Flexural modulus, 23°C	9000	MPa	ISO 178
Charpy impact strength, +23°C	30	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	25	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	260	°C	ISO 75-1/-2
Vicat softening temperature, A	300	°C	ISO 306
Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10

Electrical properties	Value	Unit	Test Standard
ISO Data			
Surface resistivity	1E8	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	1440	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	3 - 6	h	-
Processing humidity	≤0.05	%	-
Melt temperature	390	°C	-
Mold temperature	170 - 200	°C	-
Zone 1	360 - 370	°C	-
Zone 2	380 - 390	°C	-
Zone 3	390 - 400	°C	-
Nozzle temperature	360 - 380	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Black

Additives

Lubricants

Special Characteristics

Flame retardant

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Applications

Aircraft and Aerospace, Automotive, Medical

Regional Availability

North America, Europe, Asia Pacific