LUVOCOM 1105/CF/10/GR/10/TF/10-2

(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	**13000**	MPa	ISO 527
Tensile Strength	**155**	MPa	ISO 527
Flexural modulus, 23°C	**9000**	MPa	ISO 178
Charpy impact strength, -30°C	**25**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**7**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**7**	kJ/m²	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/m³	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