Xencor™ PA66 LGF-1150BK

PA66-GLF50 Syensqo

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
Other Standards[S]			
Molding shrinkage, parallel	**0.2 / ***	%	Producer Method

S: These properties are reported by the producer according standards that are different to our defaults.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**17500 / 14000**	MPa	ISO 527
Yield stress	**265 / 215**	MPa	ISO 527
Strain at break	**2.4 / -**	%	ISO 527
Flexural modulus, 23°C	**14500 / 11300**	MPa	ISO 178
Flexural strength	**420 / 320**	MPa	ISO 178
Charpy impact strength, +23°C	**83 / 90**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**35 / 36**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**253 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**255 / ***	°C	ISO 75-1/-2
Other Standards[S]			
Coeff. of linear therm. expansion, parallel	**20 / ***	E-6/K	ISO 7991
Thermal Conductivity, solid state	**0.33**	W/(m K)	ISO 22007

S: These properties are reported by the producer according standards that are different to our defaults.

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Electric strength	**36 / -**	kV/mm	IEC 60243-1
Comparative tracking index	**500 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Humidity absorption	**1.3 / ***	%	Sim. to ISO 62
Density	**1580 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**110**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.1**	%	-
Melt temperature	**<310**	°C	-
Mold temperature	**80 - 160**	°C	-
Zone 1	**270 - 300**	°C	-
Zone 2	**270 - 300**	°C	-
Zone 3	**285 - 310**	°C	-
Nozzle temperature	**285 - 320**	°C	-

Characteristics

Processing
Injection Molding

Features
Long fiber reinforced

Delivery form
Pellets, Black

Regional Availability
Europe

Special Characteristics
Heat stabilized or stable to heat