

Xencor™ PA66 LGF-1150BK
PA66-GLF50

Syensqo

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	Producer Method

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
Impact Strength (Charpy), +23°C	83 / 90	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	35 / 36	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	14500 / 11300	MPa	ISO 178
Flexural strength	420 / 320	MPa	ISO 178

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
Coeff. of Linear Therm. Expansion, parallel	20 / *	E-6/K	ISO 7991
ASTM Data			
Thermal Conductivity, solid state	0.33	W/(m K)	ISO 22007

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
ISO Data			
Humidity absorption	1.3 / *	%	Sim. to ISO 62
Density	1580 / -	kg/m ³	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

Delivery form

Pellets, Black

Special Characteristics

Heat aging stabilized