

Xencor™ PA66 LGF-2040

PA66-GF40

Syensqo

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	13000 / 11000	MPa	ISO 527
Stress at Break	220 / 190	MPa	ISO 527
Strain at Break	2.2 / -	%	ISO 527
Impact Strength (Charpy), +23°C	70 / 90	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	30 / 35	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	10900 / -	MPa	ISO 178
Flexural strength	330 / 270	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	237 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	245 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	23 / *	E-6/K	ISO 11359-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Electric Strength	35 / -	kV/mm	IEC 60243-1
Comparative tracking index	500 / -	-	IEC 60112
ASTM Data			
Surface Resistivity	* / 1E12	Ohm	ASTM D 257

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1500 / -	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, Compression Molding

Delivery form

Pellets

Applications

Electrical and Electrical