

Xencor™ HPPA LGF-4050

PA*-GF50

Syensqo

Electrically Insulating.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	17500 / 17500	MPa	ISO 527
Stress at Break	270 / 235	MPa	ISO 527
Strain at Break	2.1 / 2	%	ISO 527
Impact Strength (Charpy), +23°C	98 / 95	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	90 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	38 / 35	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	35 / -	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	16000 / -	MPa	ISO 178
Flexural strength	360 / -	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	255 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	20 / *	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	600 / -	-	IEC 60112
ASTM Data			
Surface Resistivity	* / 1E13	Ohm	ASTM D 257

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1590 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.1	%	-
Melt temperature	320	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	290 - 300	°C	-
Zone 2	300	°C	-
Zone 3	300	°C	-
Nozzle temperature	300	°C	-

Characteristics
Processing

Injection Molding, Compression Molding

Delivery form

Pellets

Special Characteristics

Impact modified, Heat aging stabilized

Disclaimer
Features

Creep Resistance, Fatigue Resistance, Low Warpage

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical