Xencor™ PPA LGF-1950 HS BK 545-9

PPA-GF50 Syensqo

Product Texts
Electrically Insulating.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**18500 / 18300**	MPa	ISO 527
Stress at break	**275 / 260**	MPa	ISO 527
Strain at break	**2 / 2**	%	ISO 527
Flexural modulus, 23°C	**17500 / -**	MPa	ISO 178
Flexural strength	**410 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**95 / 85**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**95 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**35 / 35**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**35 / -**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**285 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**300 / ***	°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
Humidity absorption	**0.8 / ***	%	Sim. to ISO 62
Density	**1610 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4 - 8**	h	-
Processing humidity	**≤0.06**	%	-
Melt temperature	**345**	°C	-
Mold temperature	**135 - 160**	°C	-
Zone 1	**330 - 340**	°C	-
Zone 2	**340**	°C	-
Zone 3	**340**	°C	-
Nozzle temperature	**335 - 345**	°C	-

Characteristics

Processing

Injection Molding, Compression Molding

Delivery form

Pellets, Black

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Features

Creep Resistance, Fatigue Resistance, Long fiber reinforced, Low Warpage

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa