

Omnix® 6025 BK 000 HFFR

PA*-GF25

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Density, 73°F	1400	kg/m³	ASTM D 792
Water Absorption, 24hr	0.7	%	ASTM D 570

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	9600 / 9600	MPa	ISO 527
Stress at Break	124 / 125	MPa	ISO 527
Strain at Break	3.3 / 3.3	%	ISO 527
Impact Strength (Charpy), +23°C	66 / 66	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9.3 / 9.6	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	9300 / 9300	MPa	ISO 178
Flexural strength	209 / 209	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	9.4 / 9.2	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	55 / 56	kJ/m²	ISO 180/1U
ASTM Data			
Compressive Strength	170 / 160	MPa	ASTM D 695

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	179 / *	°C	ISO 75-1/-2
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	25	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	73	E-6/K	ASTM D 696

Electrical Properties	dry / cond	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	23 / -	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.005 / -	-	ASTM D 150
Dissipation Factor, 1 MHz	0.013 / -	-	ASTM D 150
Dielectric Constant, 60 Hz	3.9 / -	-	ASTM D 150
Dielectric Constant, 1 MHz	3.7 / -	-	ASTM D 150
Volume Resistivity	1E16 / -	Ohm*cm	ASTM D 257

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 12	h	-
Melt temperature	275 - 290	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	250	°C	-
Zone 2	285	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

Flame retardant, Halogen-free, Impact modified

Applications

Automotive, Electrical and Electronical