

Omnix® FC-4050 BK 001
(PA*+PPA)-GF50

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Density, 73°F	1590	kg/m³	ASTM D 792

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	17000	MPa	ISO 527
Yield stress	245	MPa	ISO 527
Strain at Break	2.4	%	ISO 527
Flexural Modulus (23°C)	15000	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	14	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	90	kJ/m²	ISO 180/1U

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	260	°C	ISO 11357-1/-3

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

Special Characteristics

Impact modified

Delivery form

Pellets, Black

Certifications

Food approval, Food Contact (FDA)