

Omnix® DW-4050 BK 001

(PA*+PPA)-GF50

Syensqo

Processing/Physical Characteristics	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
Izod impact strength, +23°C	90	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	14	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	260	°C	ISO 11357-1/-3

Other properties	Value	Unit	Test Standard
Density	1590	kg/m ³	ASTM D 792

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

High impact or impact modified

Certifications

Food contact, Food approval FDA 21 CFR, Drinking water contact, Drinking water contact KTW

Regional Availability

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