

Omnix® FC-4030 BK 001
(PA*+PPA)-GF30

Syensqo

Water-Heated Mold Injection Molding.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Density, 73°F	1410	kg/m³	ASTM D 792

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10900 / 9600	MPa	ISO 527
Yield stress	185 / 145	MPa	ISO 527
Strain at Break	2.5 / 4	%	ISO 527
Impact Strength (Charpy), +23°C	60 / 60	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9.2 / 9.2	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	9000 / -	MPa	ISO 178
Flexural strength	260 / -	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Burning Behav. at thickness h	HB / *	class	UL 94
Glow Wire (GWFI, Flammability Index)	675	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.8	mm	-
Glow Wire (GWFI, Flammability Index)	675	°C	IEC 60695-2-12
GWFI - thickness tested (2)	1.5	mm	-
Glow Wire (GWFI, Flammability Index)	960	°C	IEC 60695-2-12
GWFI - thickness tested (3)	3	mm	-
Glow Wire Ignition Temperature	700	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.8	mm	-
Glow Wire Ignition Temperature	700	°C	IEC 60695-2-13
GWIT - thickness tested (2)	1.5	mm	-
Glow Wire Ignition Temperature	775	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	5.1 / *	%	Sim. to ISO 62

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)

Disclaimer