

Omnix® 4020 BK 000

(PA*+PPA)-GF20

Syensqo

Product Texts

Water-Heated Mold Injection Molding.

Processing/Physical Characteristics

	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8150 / 7100	MPa	ISO 527
Yield stress	140 / 120	MPa	ISO 527
Yield strain	2.2 / 3.9	%	ISO 527
Flexural modulus, 23°C	6700 / -	MPa	ISO 178
Flexural strength	200 / -	MPa	ISO 178
Charpy impact strength, +23°C	42 / 42	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6.5 / 6.5	kJ/m ²	ISO 179/1eA

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	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

Electrical properties

	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	600 / -	-	IEC 60112

Other properties

	dry / cond	Unit	Test Standard
Water absorption	5.9 / *	%	Sim. to ISO 62
Density	1320	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, Heat stabilized or stable to heat

Certifications

RoHS compliant

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific