

Omnix® 4020 BK 000
(PA*+PPA)-GF20

Syensqo

Water-Heated Mold Injection Molding.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Density, 73°F	1320	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	0.7 / *	%	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
Impact Strength (Charpy), +23°C	42 / 42	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	6.5 / 6.5	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	6700 / -	MPa	ISO 178
Flexural strength	200 / -	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
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
ISO Data			
Water Absorption	5.9 / *	%	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

Delivery form
Pellets, Black

Special Characteristics
Impact modified, Heat aging stabilized

Applications
Automotive, Electrical and Electronical