CELANYL® XS3 GF40 NC 1102/V

PA*-GF40 Celanese

Product Texts

Compound designed for parts with high mechanical requirements, typically used to replace metal due to the high stiffness and strength, stable after conditioning. It shows better creep behavior and dimensional stability vs. an equivalent PA66 grade, with lower warpage and excellent surface finish.

Flammability @3.2mm nom. thickn.	HB	-
Flammability @1.6mm nom. thickn.	HB	-
Flammability @0.8mm nom. thickn.	HB	-
Flammability @0.4mm nom. thickn.	HB	UL recognition (0.4)

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.1 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.4 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**13500 / 12500**	MPa	ISO 527
[C] Stress at break	**220 / 190**	MPa	ISO 527
[C] Strain at break	**3.5 / 4**	%	ISO 527
[C] Charpy impact strength, +23°C	**95 / 90**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**75 / -**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**12.5 / 13**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**10.5 / -**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**230 / ***	°C	ISO 75-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.6 / ***	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**1E12 / -**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	*** / 1E13**	Ohm	IEC 62631-3-2
[C] Electric strength	**32 / -**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**4.6 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.2 / ***	%	Sim. to ISO 62
[C] Density	**- / 1480**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Delivery form
Natural Color

Features
Creep Resistance, Low Warpage