CELANYL® XT6 GF35 BK 9005/A

PPA-GF35 Celanese

Product Texts

XT6 compounds are designed for engineering applications requiring a maximum service temperature higher than that of standard polyamides. The most relevant characteristics are the following: High stiffness and strength at elevated temperatures, excellent creep behavior, small influence on mechanical properties after moisture uptake, good dimensional stability and low warpage.

Flammability @3.2mm nom. thickn.	HB	-
Flammability @1.6mm nom. thickn.	HB	-
Flammability @0.8mm nom. thickn.	HB	-
Flammability @0.4mm nom. thickn.	HB	-

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.3 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.6 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**12200 / -**	MPa	ISO 527
[C] Stress at break	**200 / -**	MPa	ISO 527
[C] Strain at break	**2 / -**	%	ISO 527
[C] Charpy impact strength, +23°C	**52 / -**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**10 / -**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**9.5 / -**	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	**260 / ***	°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	**1E13 / -**	Ohm*m	IEC 62631-3-1
[C] Electric strength	**21 / -**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Humidity absorption	**1.2 / ***	%	Sim. to ISO 62
[C] Density	**- / 1450**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Delivery form

Black

Regional Availability

Europe

Features

Creep Resistance, Low Warpage