

PA66, unfilled, internally lubricated, 2.7 viscosity, for food contact.

	Properties	Conditions	Unit	Standard	Values
Physical	Density	23°C	g/cm ³	ISO 1183	1,14
	Mould shrinkage (parallel)	23°C	%	ISO 294-4	1,3
	Mould shrinkage (normal)	23°C	%	ISO 294-4	1,3
	Moisture absorption in water	23°C - 24h	%	ISO 62	1,50
		23°C saturation	%	ISO 62	8,50
Mechanical	Notched Izod Impact Strength	23°C	KJ/m ²	ISO 180/A	5,5
		-30°C	KJ/m ²	ISO 180/A	4,5
	Unnotched Charpy Impact Strength	23°C	KJ/m ²	ISO 179/1eU	n.r./n.b.
		-30°C	KJ/m ²	ISO 179/1eU	n.r./n.b.
	Notched Charpy Impact Strength	23°C	KJ/m ²	ISO 179/1eA	5,0
		-30°C	KJ/m ²	ISO 179/1eA	4
	Tensile yield stress	23°C	MPa	ISO 527	81
	Tensile modulus	23°C	MPa	ISO 527	3100
	Tensile yield strain	23°C	%	ISO 527	6,0
	Tensile strain at break	23°C	%	ISO 527	50,0
	Flexural yield stress	23°C	MPa	ISO 178	120
		90°C	MPa	ISO 178	30
	Flexural Modulus	23°C	MPa	ISO 178	2850
		90°C	MPa	ISO 178	800
Thermal	VICAT - softening temperature	49 N	°C	ISO 306	240
	HDT - deflection temperature under load	0.45 N/mm ²	°C	ISO 75	225
		1.82 N/mm ²	°C	ISO 75	75
	Heat resistance - Ball test	125°C		IEC 60309-1	OK
		165°C		IEC 60309-1	OK
	Continuous service temperature	20000 h	°C	IEC 216	85
Electrical	Dielectric Strength	2 mm	KV/mm	IEC60 243	18
	Surface resistivity	23°C	ohm	IEC 60093	10*12
	Volume resistivity	23°C	ohm/m	IEC 60093	10*13
	CTI - Comparative Tracking Index	3.2 mm, sol. A	V	IEC 60112	600
Flame behaviour	Oxygen Index		%	IEC 4589	28
	Flammability rating	3.2 (1.6) mm		UL 94	V2 (V2)
		0.8 (0.4) mm		UL 94	V2
	Needle flame test	2.0 (1.0) mm		IEC 60695-11-5	—
	Glow wire Flammability Index	3.2 (0.8) mm	°C	IEC 60695-2-12	850 (750)
	Glow wire Ignition Temperature	3.2 (0.8) mm	°C	IEC 60695-2-13	750 (775)
	Flammability rating	355x100x1 mm		FMVSS No.302	SE

UL Listed

The information given by this datasheet is not a specification. All the data reported are based on our current knowledge and do not exonerate the user from the obligation to test the Polynil P50 FI natural as to its suitability for the intended processes and uses: it is therefore the sole and exclusive responsibility of the user to check - before marketing, making use of or selling his own finished-product to any third parties - to check its conformity to the relevant safety standards and/or regulations applicable from time to time, since the user's stocking or processing procedure might affect the inner qualities and properties of the raw material supplied by Euronil. The application, use and processing of our material and the products manufactured by the user are beyond our control and, therefore, entirely the sole user's responsibility. Nilamid, Nilamon, Ecomid, Artex and Nilitop are registered trademarks of Euronil. They are not registered in the US; Euronil do not sell under these trademarks in the US. DB rev. 04/12/07