

Nilamid A3 H7 G5 natural



PA66, 25% glass fibre reinforced, high heat aging resistant

	Properties	Conditions	Unit	Standard	Values
Physical	Density	23°C	g/cm ³	ISO 1183, ASTM D792	1,32
	Mould shrinkage (parallel)	23°C	%	Euronil	0,3
	Mould shrinkage (normal)	23°C	%	Euronil	0,6
	Moisture absorption in water	23°C - 24h	%	ISO 62 (based on)	0,8
		23°C saturation	%	ISO 62 (based on)	5,4
Mechanical	Notched Izod Impact Strength	23°C	KJ/m ²	ISO 180/1A	9
		-30°C	KJ/m ²	ISO 180/1A	—
	Unnotched Charpy Impact Strength	23°C	KJ/m ²	ISO 179	50
		-30°C	KJ/m ²	ISO 179	—
	Notched Charpy Impact Strength	23°C	KJ/m ²	ISO 179	10
		-30°C	KJ/m ²	ISO 179	—
	Tensile yield stress	23°C	MPa	ISO 527, ASTM D638	157
	Tensile modulus	23°C	MPa	ISO 527, ASTM D638	—
	Yield strain	23°C	%	ISO 527, ASTM D638	—
	Strain at break	23°C	%	ISO 527, ASTM D638	2,5
	Flexural yield strength	23°C	MPa	ISO 178, ASTM D790	240
		90°C	MPa	ISO 178, ASTM D790	—
	Flexural Modulus	23°C	MPa	ISO 178, ASTM D790	7800
		90°C	MPa	ISO 178, ASTM D790	4600
Thermal	VICAT - softening temperature	9.8 N	°C	ISO 306, ASTM D1525	255
		49 N	°C	ISO 306, ASTM D1525	250
	HDT - temperature of deflection under load	0.45 N/mm ²	°C	ISO 75, ASTM D 648	255
		1.82 N/mm ²	°C	ISO 75, ASTM D 648	250
	Heat resistance - Ball test	125°C		IEC 309	OK
		165°C		IEC 309	OK
Electrical	Continuous service temperature	20000 h	°C	IEC 216	140
	Dielectric Strength	2 mm	KV/mm	ASTM D149	20
	CTI - Comparative Tracking Index	3.2 mm, sol. A	V	IEC 112, UL 746A	450
		3.2 mm, sol. B	V	IEC 112, UL 746A	325M
Flame behaviour	Oxygen Index		%	ASTM D2863	24
	Flammability rating	3.2 (1.6) mm		UL 94	HB
		0.8 (0.4) mm		UL 94	HB
	Needle test	2.0 (1.0) mm		IEC 695-2-2	—
	Glow wire Flammability Index	3.2 (0.8) mm	°C	IEC 695-2-12	650 (650)
	Glow wire Ignition Temperature	3.2 (0.8) mm	°C	IEC 695-2-13	—
	Flammability rating	355x100x1 mm		FMVSS No.302	—

Technical Data Sheet

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