

Nilamid B3 H G3 natural

PA6, 15% glass fibre reinforced

	Properties	Conditions	Unit	Standard	Values
Physical	Density	23°C	g/cm ³	ISO 1183, ASTM D792	1,23
	Mould shrinkage (parallel)	23°C	%	Euronil	0,50
	Mould shrinkage (normal)	23°C	%	Euronil	0,70
	Moisture absorption in water	23°C - 24h	%	ISO 62 (based on)	2,0
		23°C saturation	%	ISO 62 (based on)	7,0
Mechanical	Notched Izod Impact Strength	23°C	KJ/m ²	ISO 180/1A	4,0
		-30°C	KJ/m ²	ISO 180/1A	3,0
	Unnotched Charpy Impact Strength	23°C	KJ/m ²	ISO 179	35,0
		-30°C	KJ/m ²	ISO 179	25,0
	Notched Charpy Impact Strength	23°C	KJ/m ²	ISO 179	8,0
		-30°C	KJ/m ²	ISO 179	6,0
	Tensile yield stress	23°C	MPa	ISO 527, ASTM D638	130
	Tensile modulus	23°C	MPa	ISO 527, ASTM D638	5800
	Yield strain	23°C	%	ISO 527, ASTM D638	—
	Strain at break	23°C	%	ISO 527, ASTM D638	4,0
	Flexural yield strength	23°C	MPa	ISO 178, ASTM D790	180
		90°C	MPa	ISO 178, ASTM D790	110
	Flexural Modulus	23°C	MPa	ISO 178, ASTM D790	5500
		90°C	MPa	ISO 178, ASTM D790	2050
Thermal	VICAT - softening temperature	9.8 N	°C	ISO 306, ASTM D1525	220
		49 N	°C	ISO 306, ASTM D1525	210
	HDT - temperature of deflection under load	0.45 N/mm ²	°C	ISO 75, ASTM D 648	215
		1.82 N/mm ²	°C	ISO 75, ASTM D 648	190
	Heat resistance - Ball test	125°C		IEC 309	OK
		165°C		IEC 309	OK
Electrical	Continuous service temperature	20000 h	°C	IEC 216	100
	Dielectric Strength	2 mm	KV/mm	ASTM D149	21
	CTI - Comparative Tracking Index	3.2 mm, sol. A	V	IEC 112, UL 746A	500
		3.2 mm, sol. B	V	IEC 112, UL 746A	375M
Flame behaviour	Oxygen Index		%	ASTM D2863	22
	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	750 (650)
	Glow wire Ignition Temperature	3.2 (0.8) mm	°C	IEC 695-2-13	—
	Flammability rating	355x100x1 mm		FMVSS No.302	B22

Technical Data Sheet

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