

Nilamid A3 H2 C6 natural



PA66, 30% carbon fibre reinforced, heat stabilized

	Properties	Conditions	Unit	Standard	Values
Physical	Density	23°C	g/cm ³	ISO 1183, ASTM D792	1,28
	Mould shrinkage (parallel)	23°C	%	Euronil	0,2
	Mould shrinkage (normal)	23°C	%	Euronil	0,4
	Moisture absorption in water	23°C - 24h	%	ISO 62 (based on)	0,6
		23°C saturation	%	ISO 62 (based on)	4,5
Mechanical	Notched Izod Impact Strength	23°C	KJ/m ²	ISO 180/1A	7
		-30°C	KJ/m ²	ISO 180/1A	5,5
	Unnotched Charpy Impact Strength	23°C	KJ/m ²	ISO 179	30
		-30°C	KJ/m ²	ISO 179	15
	Notched Charpy Impact Strength	23°C	KJ/m ²	ISO 179	8
		-30°C	KJ/m ²	ISO 179	6
	Tensile yield stress	23°C	MPa	ISO 527, ASTM D638	220
	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	2,0
	Flexural yield strength	23°C	MPa	ISO 178, ASTM D790	350
		90°C	MPa	ISO 178, ASTM D790	220
	Flexural Modulus	23°C	MPa	ISO 178, ASTM D790	17000
		90°C	MPa	ISO 178, ASTM D790	9500
Thermal	VICAT - softening temperature	9.8 N	°C	ISO 306, ASTM D1525	255
		49 N	°C	ISO 306, ASTM D1525	252
	HDT - temperature of deflection under load	0.45 N/mm ²	°C	ISO 75, ASTM D 648	260
		1.82 N/mm ²	°C	ISO 75, ASTM D 648	255
	Heat resistance - Ball test	125°C		IEC 309	OK
		165°C		IEC 309	OK
	Continuous service temperature	20000 h	°C	IEC 216	130
Electrical	Dielectric Strength	2 mm	KV/mm	ASTM D149	2
	CTI - Comparative Tracking Index	3.2 mm, sol. A	V	IEC 112, UL 746A	<100
		3.2 mm, sol. B	V	IEC 112, UL 746A	<100
Flame behaviour	Oxygen Index		%	ASTM D2863	26
	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	—
	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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