

Material specification

Lauramid® - Type "A"

Description:

Lauramid is a polyamide 12 made by Lactamcasting of clean Laurinlactam.
The low viscosity melting is casted unpressured in the mould and is polymerizing there.
The processing of reclaim is justified by chemical processing.

Lauramid – Typ „A“ is impact resistant modified.

Standard values (1) for natural colored and black pigmented

attribute	test specification	value	unit
Density		1.03	g/ml
Yield stress	ISO 527	54-58	Mpa
Yield strain	ISO 527	9	%
Ductile yield	ISO 527	200-250	%
Traction-E-modulus	ISO 527	1800-2000	Mpa
Breack Strengt	ISO 527	40-45	Mpa
Izod-impact strength	ISO 179 1eU (+23°C)	(N)	kJ/m²
Izod-impact strength	ISO 179 1eU (-30°C)	(N)	kJ/m²
Izod- test toughness	ISO 179 1eA (+23°C)	20-30	kJ/m²
Izod- test toughness	ISO 179 1eA (-30°C)	10-15	kJ/m²
Vicat B/50	ISO 306	172-180	°C
Dielectric strength	IEC 250	3.5	-
Dielectric loss factor	IEC 250	380 E4	-
spec. volume resistance	IEC 93	3E14	Ohm cm
spec. surface resistance	IEC 93	1E14	Ohm cm
Water absorption (water immersion)	ISO	1,4	%
	62		
Water absorption (rel. humidity)	ISO 62	0.9	%

(1) - average, no guarantee value
test piece cutting out of semi finished part, humidity

(N) - no break

Lauramid – Type „A“ draws out for its very low water absorption, a good hydrolysis constancy, a very good dimensional stability, mechanical and chemical resistance.

Applications:

Gears, worm gears and chain wheels, rollers and sliding bearings, propellers, cleaner- and pump parts.

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Manufacturer speciality:

Deliveries of A. Handtmann ELTEKA are 100 % x-rayed