

## Lauramid Hybrid®:

### Material properties

Material specifications: Lauramid Hybrid® (bei 23°C/50% r.F.)	Test standard*		Lauramid® A with 8 mm aluminium foam
Density (kg/dm <sup>3</sup> )			0.7
Yield stress (Mpa)	ISO 527	(50 mm/min)	28
Elongation at yield (%)	ISO 527	(50 mm/min)	5
Rupture strength (Mpa)	ISO 527	(50 mm/min)	12 - 14
Elongation at rupture (%)	ISO 527	(50 mm/min)	14 - 16
Tensile modulus of elasticity (Mpa)	ISO 527	(Secant 1mm/min)	1400
Izod impact value (kJ/m <sup>2</sup> )	ISO 179 1eA	+23°C	18 - 25
Izod impact value (kJ/m <sup>2</sup> )	ISO 179 1eA	-30°C	9 - 13
Vicat B/50 (°C)	ISO 306	50 N	177 +/- 3
Dielectric constant	IEC 250	50 MHz	3.5
Dielectric loss factor (E-4)	IEC 250	50 Hz	380
Specific surface resistance (Ω cm)	IEC 93		1E14
Water absorption with standard climate (%)	ISO 62		0.9
Water absorption with water storage (%)	ISO 62	23°C/gesättigt	1.4

\* Since an encapsulation of 4 mm of Lauramid® around the metal foam is recommended, all test standards were determined using test sticks with a thickness of 16 mm and a width of 10 mm.

#### Applications & available variants:

- Rollers
- Toothed wheels
- Boards and pre-cut parts
- Castings



*Closed-pore Lauramid Hybrid®:  
Lauramid® penetrates into the  
outer pores of the aluminium foam*

*Open-pore Lauramid Hybrid®: Lauramid®  
penetrates completely into the aluminium foam*

