

# LEONA™ SN and SG Resin PA66+6I Series for Battery Applications



Lightweight



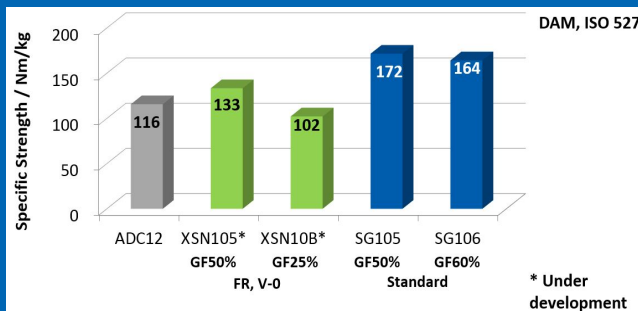
Electrification



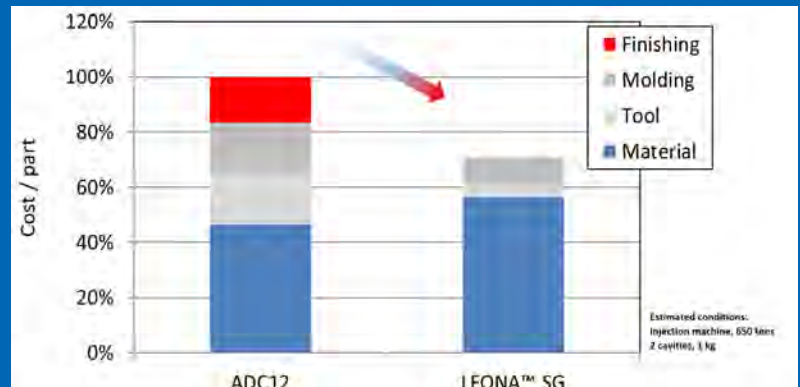
Safety / Comfort

## Application Areas

- 3D printing (FDM, SLS, SLA, etc.)
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Comparison of specific tensile strength



LEONA™ SG enables 30% cost reduction

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## Key Properties

- High specific strength and stiffness
- Keeps flexural modulus under the moisture absorption
- High comparative tracking index
- High flowability
- Good appearance

	Unit	Method	Flame retardant grades				Standard grades			
			XSN105		XSN10B		SG105		SG106	
			Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
Glass fiber content	%	-	50		25		50		60	
Tensile stress at break	%	ISO 527	2.9	2.5	2.6	2.5	2.5	2.5	2.5	2.5
Tensile strain at break	MPa		213	196	152	131	270	230	280	240
Tensile modulus	GPa		11.5	11	10.6	10.3	18.0	18.0	20.0	19.0
Flexural strength	MPa	ISO 178	343	309	239	214	380	350	400	380
Flexural modulus	GPa		17.4	17.4	11.1	10.2	16.0	15.0	20.0	19.0
Charpy notched impact strength	kJ/m²	ISO 179	13.4	TBM	10.1	9.9	17.0	16.0	17.0	17.0
Deflection temperature under load (1.8 MPa)	°C		228	-	228	-	240	-	240	-
Deflection temperature under load (0.45 MPa)	°C		251	-	254	-	250	-	250	-