

TECHNICAL DATA SHEET

# Akulon® K222-KGV6

Envalior  
PA6-GF30 FR(30)

**Processing**

Injection molding

**Delivery Form**

Pellets

**Additives**

Release agent

**Special Characteristics**

Flame retardant, Halogen-free, Phosphorus-free, Heat stabilized or stable to heat

## Product Text

**Product Information**

30% Glass Reinforced, Heat Stabilized, Flame Retardant (halogen- phosphorous-free)

ISO 1043 PA6-GF30 FR(30)

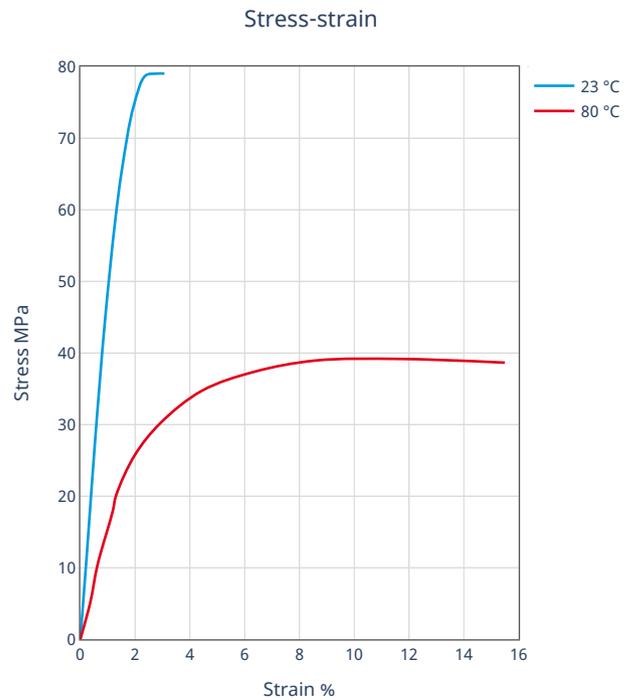
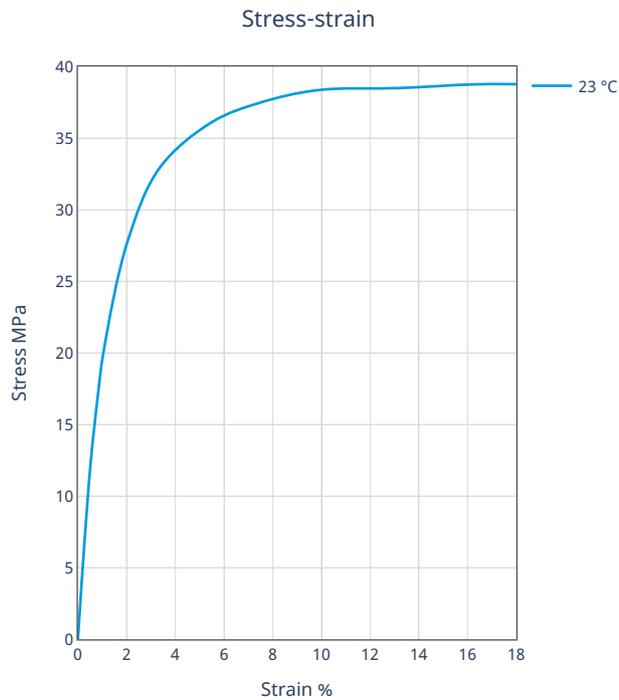
Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.55	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	7800	MPa	ISO 527
Stress at break	95	MPa	ISO 527
Strain at break	3.2	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	43	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	40	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	4	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	220	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	180	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	

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Thermal Properties	Value	Unit	Standard
Yellow card available	yes		
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	3	mm	
Yellow card available	yes		
Electrical Properties	Value	Unit	Standard
Comparative tracking index	525		IEC 60112
Other Properties	Value	Unit	Standard
Water absorption	5.6	%	Sim. to ISO 62
Humidity absorption	1.5	%	Sim. to ISO 62
Density	1440	kg/m <sup>3</sup>	ISO 1183

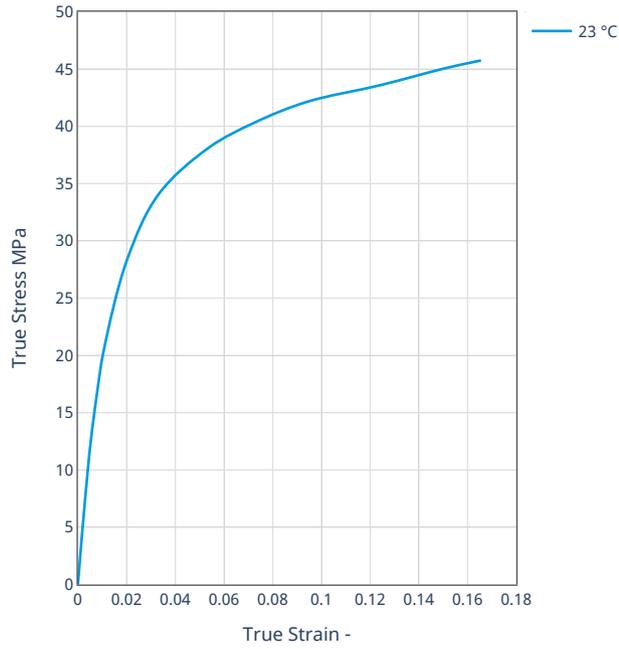
## Diagrams



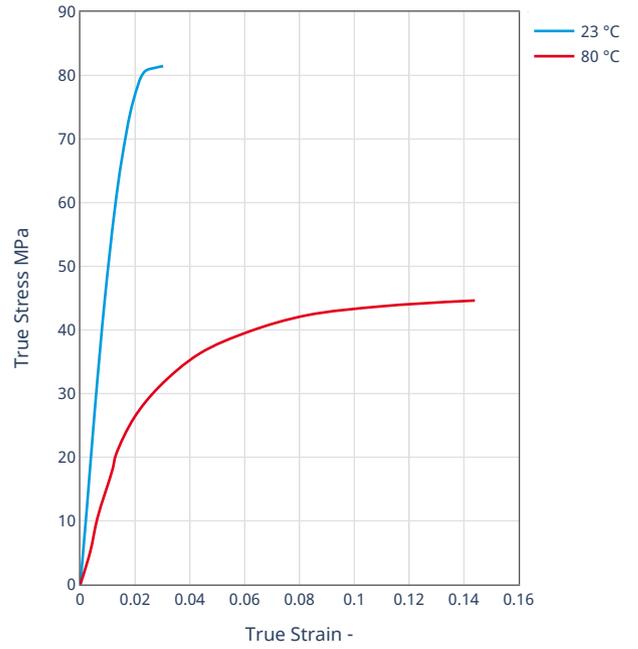
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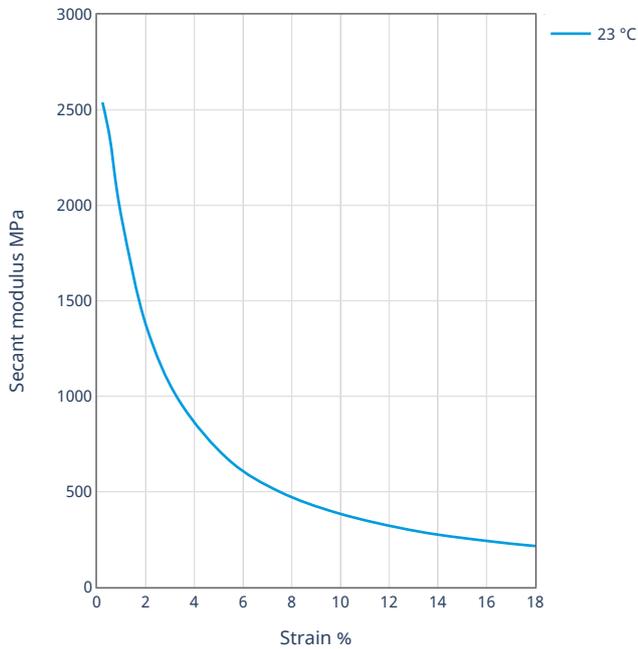
True stress-true strain



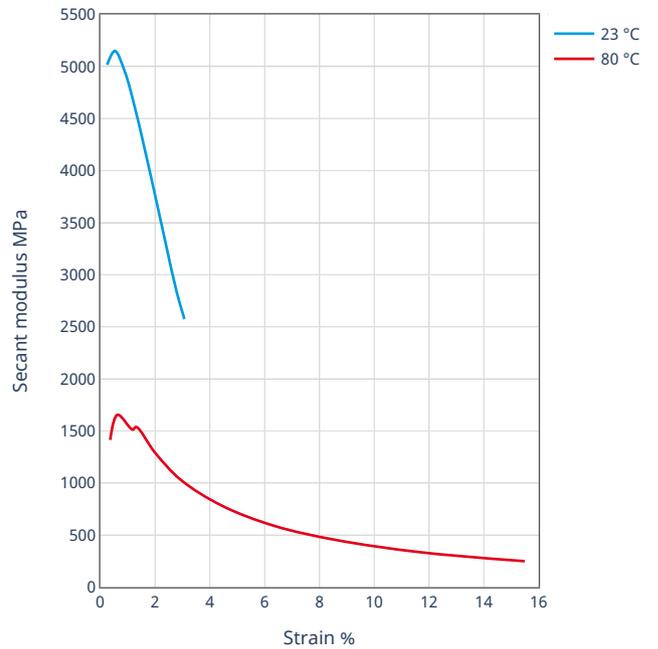
True stress-true strain



Secant modulus-strain

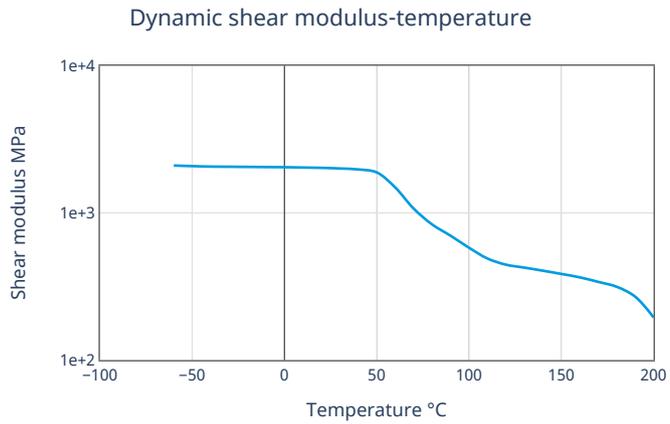


Secant modulus-strain



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## Processing Information

### Injection molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Trouble shooting guideline for injection molding