

TECHNICAL DATA SHEET

Akulon® K224-PG3

Envalior
PA6-I-GF15

Processing

Injection molding

Delivery Form

Pellets

Additives

Release agent

Special Characteristics

High impact or impact modified

Product Text

Product Information

15% Glass Reinforced, Impact Modified

ISO 1043 PA6-I-GF15

Mechanical Properties	Value	Unit	Standard
Tensile modulus	5400	MPa	ISO 527
Stress at break	105	MPa	ISO 527
Strain at break	4	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	70	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	16	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9	kJ/m ²	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	185	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	205	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	
Yellow card available	yes		

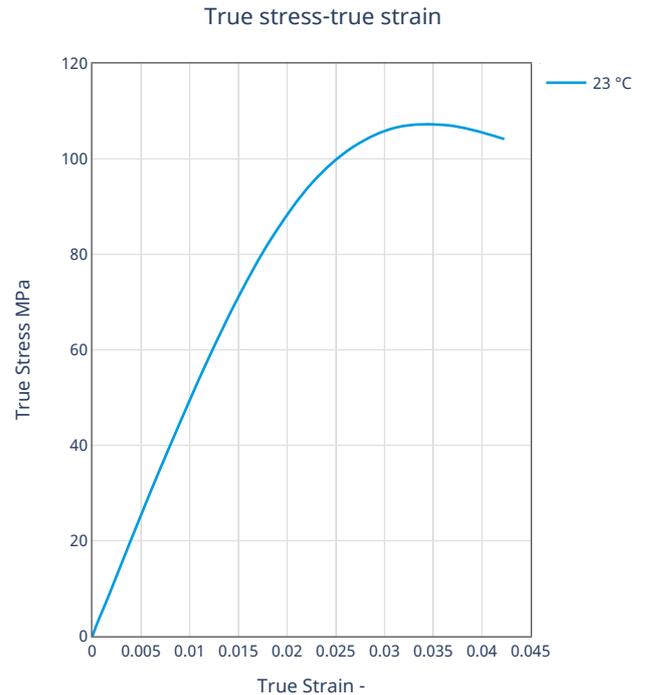
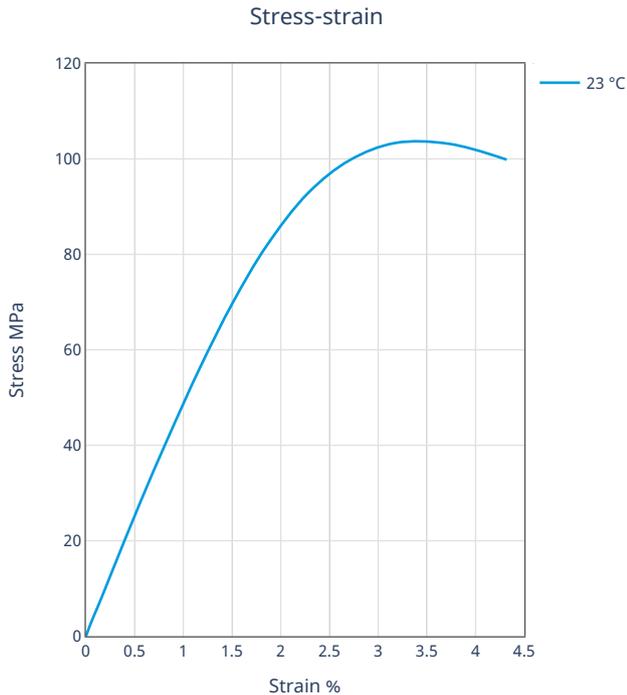
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Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	3.6		IEC 62631-2-1
Relative permittivity, 1MHz	3.3		IEC 62631-2-1
Dissipation factor, 100Hz	100	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	180	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	25	kV/mm	IEC 60243-1
Comparative tracking index	500		IEC 60112

Other Properties	Value	Unit	Standard
Water absorption	6.8	%	Sim. to ISO 62
Humidity absorption	2	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183

Diagrams



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