



This datasheet of **Akulon® F150-CZ** from **Envalior** is provided by the international plastics database **CAMPUS**.

Akulon® F150-CZ | PA6 | Envalior

Product Texts

Very High Viscosity, Food Contact Quality, Lubricated

ISO 1043 PA6

Mechanical properties	dry / cond	Unit
Tensile modulus	3200 / -	MPa
Yield stress	85 / -	MPa
Yield strain	4 / -	%
Nominal strain at break	>50 / -	%
Thermal properties	dry / cond	Unit
Melting temperature, 10°C/min	220 / *	°C
Coeff. of linear therm. expansion, parallel	100 / *	E-6/K
Burning behavior at 1.5 mm nominal thickness	HB / *	class
Thickness tested (1.5)	1.5 / *	mm
Yellow Card available	Yes / *	-
Burning behavior at thickness h	HB / *	class
Thickness tested (h)	3.0 / *	mm
Yellow Card available	Yes / *	-
Electrical properties	dry / cond	Unit
Relative permittivity, 100Hz	3.4 / -	-
Relative permittivity, 1MHz	3.1 / -	-
Dissipation factor, 100Hz	65 / -	E-4
Dissipation factor, 1MHz	165 / -	E-4
Volume resistivity	1E13 / -	Ohm*m
Surface resistivity	1E15 / -	Ohm
Electric strength	25 / -	kV/mm

Other properties

Water absorption	dry / cond	Unit
	9.5 / *	%
Humidity absorption	2.5 / *	%
Density	1130 / -	kg/m ³

Material specific properties

Viscosity number	dry / cond	Unit
	370 / *	cm ³ /g

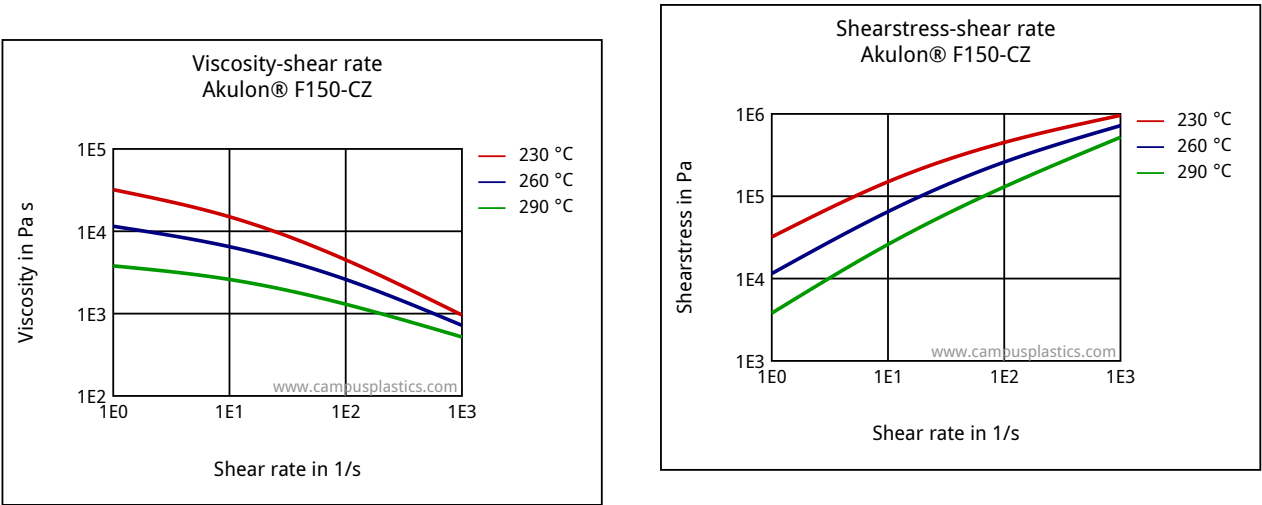
Rheological calculation properties

Ejection temperature	Value	Unit
	185	°C

Test specimen production

Processing conditions acc. ISO	Value	Unit
	1874	-
Injection molding, melt temperature	275	°C
Injection molding, mold temperature	80	°C
Injection molding, injection velocity	200	mm/s

Diagrams



Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion

Delivery form

Pellets

Additives

Lubricants

Regional Availability

Europe

Chemical Media Resistance

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Alcohols

Methanol (23°C)

Ethanol (23°C)

Hydrocarbons

Toluene (23°C)

Ketones

Acetone (23°C)

Ethers

Diethyl ether (23°C)

Other

Ethyl Acetate (23°C)

Water (23°C)

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Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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