



This datasheet of **Akulon® F232-D** from **Envalior** is provided by the international plastics database **CAMPUS**.

Akulon® F232-D | PA6 | Envalior

Product Texts

High Viscosity

ISO 1043 PA6

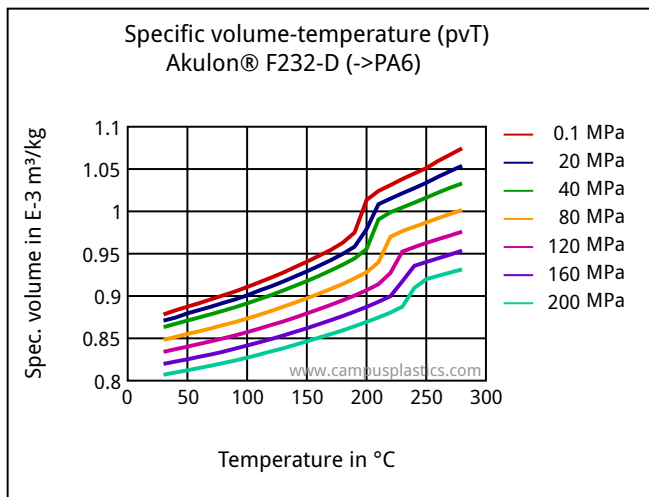
Mechanical properties	dry / cond	Unit
Tensile modulus	3300 / -	MPa
Yield stress	85 / -	MPa
Yield strain	4 / -	%
Nominal strain at break	25 / -	%
Charpy impact strength, +23°C	N / N	kJ/m²
Charpy impact strength, -30°C	N / N	kJ/m²
Charpy notched impact strength, +23°C	6 / -	kJ/m²
Charpy notched impact strength, -30°C	4 / -	kJ/m²

Thermal properties	dry / cond	Unit
Melting temperature, 10°C/min	220 / *	°C
Temp. of deflection under load, 1.80 MPa	60 / *	°C
Temp. of deflection under load, 0.45 MPa	160 / *	°C
Coeff. of linear therm. expansion, parallel	100 / *	E-6/K
Coeff. of linear therm. expansion, normal	140 / *	E-6/K
Burning behavior at 1.5 mm nominal thickness	HB / *	class
Thickness tested (1.5)	1.5 / *	mm

Yellow Card available	Yes / *
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Burning behavior at thickness h	HB / *

Thickness tested (h)	3.0 / *	mm
Yellow Card available	Yes / *	-
Electrical properties	dry / cond	Unit
Relative permittivity, 100Hz	3.9 / 14	-
Relative permittivity, 1MHz	3.4 / 4.5	-
Dissipation factor, 100Hz	110 / 3000	E-4
Dissipation factor, 1MHz	220 / 1200	E-4
Volume resistivity	1E13 / 1E10	Ohm*m
Surface resistivity	* / 1E14	Ohm
Electric strength	27 / 20	kV/mm
Comparative tracking index	600 / 600	-
Other properties	dry / cond	Unit
Water absorption	10 / *	%
Humidity absorption	3 / *	%
Density	1130 / -	kg/m ³
Material specific properties	dry / cond	Unit
Viscosity number	214 / *	cm ³ /g
Rheological calculation properties	Value	Unit
Density of melt	960	kg/m ³
Thermal conductivity of melt	0.23	W/(m K)
Spec. heat capacity melt	2680	J/(kg K)
Eff. thermal diffusivity	8.82E-8	m ² /s

Diagrams



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Regional Availability

Europe

Other text information

Injection molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Trouble shooting guideline for injection molding

Chemical Media Resistance

Alcohols

Methanol (23°C)

Ethanol (23°C)

Hydrocarbons

Toluene (23°C)

Ketones

Acetone (23°C)

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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