Akulon® F232-D

PA6 DSM Engineering Plastics

Product Texts

High Viscosity

ISO 1043 PA6

Akulon website

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3300 / -	MPa	ISO 527-1/-2
Yield stress	85 / -	MPa	ISO 527-1/-2
Yield strain	4 / -	%	ISO 527-1/-2
Nominal strain at break	35 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / -	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / -	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	150 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	140 / *	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	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.9 / 14	-	IEC 60250
Relative permittivity, 1MHz	3.4 / 4.5	-	IEC 60250
Dissipation factor, 100Hz	110 / 3000	E-4	IEC 60250
Dissipation factor, 1MHz	220 / 1200	E-4	IEC 60250
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Electric strength	27 / 20	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	10 / *	%	Sim. to ISO 62
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	214 / *	cm³/g	ISO 307, 1157, 1628

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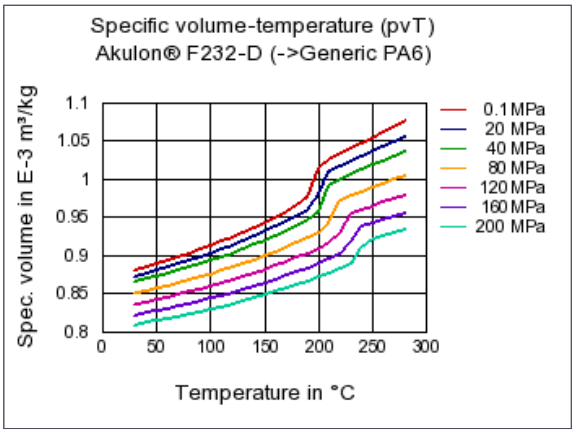
Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	960	kg/m³	-
Thermal conductivity of melt	0.23	W/(m K)	-
Spec. heat capacity of melt	2680	J/(kg K)	-
Eff. thermal diffusivity	8.82E-8	m²/s	-

Diagrams

Specific volume-temperature (pvT)



Characteristics

Processing
Injection Molding

Additives
Release agent

Delivery form
Pellets

Other text information

Injection Molding
Injection Molding Recommendations