


Akulon® K224-G8

PA6-GF40

DSM Engineering Plastics

Product Texts

40% Glass Reinforced

ISO 1043 PA6-GF40

[Akulon website](#)

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3.2 / *	cm ³ /10min	ISO 1133
Temperature	250 / *	°C	ISO 1133
Load	2.16 / *	kg	ISO 1133
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	13000 / 8000	MPa	ISO 527-1/-2
Stress at break	205 / 140	MPa	ISO 527-1/-2
Strain at break	3 / 6	%	ISO 527-1/-2
Charpy impact strength (+23°C)	95 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	85 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	18 / 26	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	13 / 13	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50 / *	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	0.7 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	3.5 / 14	-	IEC 60250
Relative permittivity, 1MHz	3.3 / 4.4	-	IEC 60250
Dissipation factor, 100Hz	50 / 3000	E-4	IEC 60250
Dissipation factor, 1MHz	150 / 1200	E-4	IEC 60250
Volume resistivity	>1E13 / 1E12	Ohm*m	IEC 60093
Surface resistivity	* / 1E13	Ohm	IEC 60093
Electric strength	35 / 25	kV/mm	IEC 60243-1
Comparative tracking index	- / 500	-	IEC 60112
Other properties			
ISO Data			
Water absorption	5.5 / *	%	Sim. to ISO 62

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Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1450 / -	kg/m³	ISO 1183
Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	1260	kg/m³	-
Thermal conductivity of melt	0.32	W/(m K)	-
Spec. heat capacity of melt	2080	J/(kg K)	-
Eff. thermal diffusivity	1.2E-7	m²/s	-
Characteristics			
Processing		Additives	
Injection Molding		Release agent	
Delivery form			
Pellets			
Other text information			
Injection Molding			
Injection Molding Recommendations			