

Product Texts

Heat Stabilized, Impact Modified, Extrusion Blow Molding

ISO 1043 PA6-I

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	33 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	21.6 / *	kg	-
^[C] Density of melt	915	kg/m ³	-
^[C] Thermal conductivity of melt	0.23	W/(m K)	-
^[C] Spec. heat capacity of melt	2710	J/(kg K)	-
^[C] Eff. thermal diffusivity	9.28E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2500 / -	MPa	ISO 527
^[C] Yield stress	70 / -	MPa	ISO 527
^[C] Yield strain	4 / -	%	ISO 527
^[C] Nominal strain at break	12 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	50 / -	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	20 / -	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	60 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	170 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	140 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	9 / *	%	Sim. to ISO 62
^[C] Humidity absorption	3 / *	%	Sim. to ISO 62
^[C] Density	1100 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Processing conditions acc. ISO	1874	-	ISO-2
^[C] Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[C]: CAMPUS

Characteristics**Processing**

Blow Molding

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Akulon® K240-HP

PA6-I

Envalior

Delivery form

Pellets

Regional Availability

North America, Europe

Other text information

Blow molding

[Blow Molding Recommendations for Akulon® K240-HP](#)