

Product Texts

AKROLOY® PA GF 40 is an alternative for aluminium- and zinc diecast alloys.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	17000 / 15500	MPa	ISO 527
Stress at break	265 / 190	MPa	ISO 527
Strain at break	2.7 / 2.7	%	ISO 527
Flexural modulus, 23°C	16500 / 15000	MPa	ISO 178
Flexural strength	385 / 285	MPa	ISO 178
Charpy impact strength, +23°C	105 / 105	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	95 / 95	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	17 / 17	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	17 / 17	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	255 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	245 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	185 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	15 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	65 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Yellow Card available	yes / *	-	-
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.6	mm	-
Glow Wire Ignition Temperature (GWIT)	675	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1.6	mm	-

Other properties	dry / cond	Unit	Test Standard
Density	1560 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	320	°C	-
Mold temperature	100	°C	-
Injection pressure	75	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe, Asia Pacific

Delivery form

Black