

AKROLOY® PA LGF 50 natural (5504)

(PA66+PA6I/6T)-GF50

Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	20500 / 20000	MPa	ISO 527
Stress at break	290 / 265	MPa	ISO 527
Strain at break	2.3 / 2.3	%	ISO 527
Flexural modulus, 23°C	18500 / -	MPa	ISO 178
Flexural strength	445 / -	MPa	ISO 178
Charpy impact strength, +23°C	115 / 110	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	90 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	45 / 45	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	45 / -	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	230 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	200 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-

Other properties	dry / cond	Unit	Test Standard
Density	1590 / -	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

Features

Fatigue Resistance, Long fiber reinforced

Delivery form

Natural Color

Applications

Automotive

Special Characteristics

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

Regional Availability

Europe, Asia Pacific