

AKROMID® T4 GF 50 black (3661)

Polyphthalamide
AKRO-PLASTIC GmbH

Message:

AKROMID® T4 GF 50 black (3661) is a 50% glass fibre reinforced polyphthalamide with very high rigidity and strength, as well as high temperature and chemical resistance
Applications are parts with tight dimensional tolerances even under high mechanical load.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	High Heat Resistance		
	High Rigidity		
	High Strength		
Appearance	Black		
Resin ID (ISO 1043)	PPA GF50		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.62	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18000	MPa	ISO 527-2/1
Tensile Stress (Break)	280	MPa	ISO 527-2/5
Tensile Strain (Break)	2.3	%	ISO 527-2/5
Flexural Modulus ¹	17700	MPa	ISO 178
Flexural Stress ²	400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	13	kJ/m ²	
23°C	15	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	90	kJ/m ²	
23°C	95	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	°C	ISO 75-2/A
Melting Temperature ³	295	°C	DIN EN 11357-1
Flammability	Nominal Value	Unit	Test Method

Burning Rate ⁴ (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content	50	%	ISO 1172
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		
4.	>1 mm		

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