

AKROMID® C3 GF 50 5 XTC natural (4946)

Polyamide 66/6 Copolymer

AKRO-PLASTIC GmbH

Message:

AKROMID® C3 GF 50 5 XTC natural (4499) is a 50% glass fibre reinforced, high temperature stabilised polyamide 6.6/6 - Blend with high stiffness and strength and extra high temperature tolerance.
Applications are mainly components in mechanical engineering and in the automotive industry.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Heat Resistance		
	High Rigidity		
	High Stiffness		
	High Strength		
Uses	Automotive Applications		
	Engineered Applications		
	Engineering Parts		
	Machine/Mechanical Parts		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA66 + PA6 GF 50		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17500	MPa	ISO 527-2/1
Tensile Stress (Break)	250	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ¹	17000	MPa	ISO 178
Flexural Stress ²	420	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	130	kJ/m²	
23°C	120	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	25	kJ/m²	
23°C	24	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Melting Temperature ³	255	°C	DIN EN 11357-1

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 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		

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