

# AKROMID® B3 GF 45 natural (2820)

Polyamide 6  
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 45 natural (2820) is a 45% glass fibre reinforced, heat stabilised polyamide 6 with very high rigidity and strength  
Applications are mainly components in mechanical engineering and in the automotive industry and highly stressed parts in the sports and leisure industry.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Rigidity		
	High Strength		
Uses	Automotive Applications		
	Engineering Parts		
	Machine/Mechanical Parts		
	Sporting Goods		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA6 GF45		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.50	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15000	MPa	ISO 527-2/1
Tensile Stress (Break)	225	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	100	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	220	°C	ISO 75-2/A
8.0 MPa, Unannealed	180	°C	ISO 75-2/C
Melting Temperature <sup>1</sup>	220	°C	DIN EN 11357-1
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content	45	%	ISO 1172
NOTE			
1.	10 K/min, DSC		

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