

AKROMID® S3 GF 23 1 natural (2917)

Polyamide 610
AKRO-PLASTIC GmbH

Message:

AKROMID® S3 GF 23 1 natural (2917) is a 23% glass fibre reinforced and heat stabilised polyamide 6.10 with average stiffness and strength as well as lower moisture absorption, high chemical resistance and light inherent color.
Applications are precision parts for apparatus engineering and precision mechanics as well as connectors, housings etc. in the automotive industry.

General Information				
UL YellowCard		E148915-102012843		
Filler / Reinforcement		Glass Fiber,23% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Chemical Resistance		
		Good Stiffness		
		Heat Stabilized		
		Low Moisture Absorption		
		Medium Strength		
Uses		Automotive Applications		
		Connectors		
		Electrical Housing		
		Engineered Applications		
		Housings		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA610 GF23		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.25	--	g/cm³	ISO 1183
Spiral Flow	45.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Humidity Absorption - 62% RH (70°C)	1.3	--	%	ISO 1110
Flexural Strain at Break ¹	5.0	--	%	ISO 178
Reinforcement Content	23	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	180	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	5000	MPa	ISO 527-2/1

Tensile Stress (Break)	140	100	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	10	%	ISO 527-2/5
Flexural Modulus ²	6500	--	MPa	ISO 178
Flexural Stress ³	210	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	15	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	--	kJ/m ²	
23°C	90	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	115	--	°C	ISO 75-2/C
Melting Temperature ⁴	220	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
NOTE				
1.	2 mm/min			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10 K/min, DSC			
5.	>1 mm			

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