

AKROMID® S3 1 black (3317)

Polyamide 610
AKRO-PLASTIC GmbH

Message:

AKROMID® S3 1 black (3317) is a nonreinforced and heat stabilised polyamide 6.10 with lower moisture absorption and high chemical resistance. Applications are precision parts for gears, connectors with hinges, corrugated tubes for brake boosters etc.

General Information				
Additive	Heat Stabilizer			
Features	Good Chemical Resistance			
	Heat Stabilized			
	Low Moisture Absorption			
Uses	Automotive Applications			
	Connectors			
	Gears			
	Living Hinges			
	Tubing			
Appearance	Black			
Resin ID (ISO 1043)	PA610			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.08	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	10.0	--	cm ³ /10min	ISO 1133
Spiral Flow	70.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.8	--	%	
Flow	1.6	--	%	
Humidity Absorption - 62% RH (70°C)	1.7	--	%	ISO 1110
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	125	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	70.0	50.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.5	20	%	
Break	> 50	> 50	%	
Flexural Modulus ¹	1900	--	MPa	ISO 178

Flexural Stress ²	100	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	4.0	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	150	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Melting Temperature ³	220	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	> 1 mm			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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