

AKROMID® S3 GF 30 8 natural (7384)

Polyamide 610

AKRO-PLASTIC GmbH

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

AKROMID® S3 GF 30 8 natural (7384) is a 30% glass fiber reinforced polyamide 6.10 with high stiffness and strength as well as low moisture absorption, high chemical resistance and light inherent colour. The material meets EU 10/2011 and FDA 21 CFR requirements but a change in flavour can occur by permanent media contact at higher temperature.

Components in food industry.

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• AKRO-PLASTIC GmbH • AKROMID®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemical Resistant • High Stiffness • High Strength • Low Moisture Absorption
Uses	• Non-specific Food Applications
Agency Ratings	• EU 10/2011
Appearance	• Natural Color
Resin ID (ISO 1043)	• PA6.10 GF30

Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.31	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	30	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Humidity Absorption - 62% RH (70°C)	1.2	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8200	6000	MPa	ISO 527-1/1
Tensile Stress (Break)	160	110	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	70	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
Melting Temperature ²	220	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94
Additional Information	Dry	Conditioned	Unit	Test Method
Reinforcement Content	30	--	%	ISO 1172

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min



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Where to Buy

Supplier

AKRO-PLASTIC GmbH

, Germany

Telephone: +49-2636-9742-0

Web: <http://www.akro-plastic.com/>

Distributor

Please contact the supplier to find a distributor for AKROMID® S3 GF 30 8 natural (7384)

