

AKROMID® T1 ICF 30 black (5148)

Polyphthalamide
AKRO-PLASTIC GmbH

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

AKROMID® T1 ICF 30 black (5148) is a 30% carbon fibre reinforced polyphthalamide with good flexural strength and good sliding properties

Mechanically high stressed parts in all industries

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	• Carbon Fiber, 30% Filler by Weight
Features	• Good Strength
Appearance	• Black
Resin ID (ISO 1043)	• PPA CF30

Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Humidity Absorption - 62% RH (70°C)	1.1	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	27000	27000	MPa	ISO 527-2/1
Tensile Stress (Break)	240	240	MPa	ISO 527-2/5
Tensile Strain (Break)	1.2	1.2	%	ISO 527-2/5
Flexural Modulus ²	25000	24500	MPa	ISO 178
Flexural Stress ²	340	340	MPa	ISO 178
Flexural Strain at Break ³	1.5	1.6	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	5.0	5.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	33	--	kJ/m ²	
23°C	35	38	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
1.8 MPa, Unannealed	258	--	°C	
Melting Temperature ⁴	313	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+4	1.0E+4	ohms	IEC 60093
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 2.0 mm/min

³ 2 mm/min

⁴ 10°C/min



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Polyphthalamide

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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® T1 ICF 30 black (5148)

