Technical Data Sheet





ALCOM TCD PA6 5070 FR 15021

(Last update: 28.11.2019)

MCOM

Base Polymer Polyamide 6 Filler/Additive System special filler

Special Features thermal conductive, electrically insulating, heat stabilised, halogen-free

flame retardant

Market Segment Automotive, Machinery, electrical and electronic, Lighting

Application Area radiator systems, cooling system

Typical Applications housings, functional components, plugs / connectors, lamp sockets

Pre-Drying Conditions 80 °C in a dry air (dessiccant) dryer

for 2-12 h

max. moisture content <0,12 %

Processing Injection Moulding melt temperature 280-300 °C

mould temperature 100-120 °C

Storage dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	15000	MPa	ISO 178
Flexural Strength	135	MPa	ISO 178
Tensile Modulus	15000	MPa	ISO 527
Tensile Strength at Break	80	MPa	ISO 527
Tensile Elongation at Break	0.8	%	ISO 527
Impact Strength (Charpy, 23°C)	15	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	210	°C	ISO 306
HDT / A (1,8 MPa)	180	°C	ISO 75-1/-2
DSC (Melt Point)	220	°C	ISO 11357
Thermal Conductivity (Integral)	2.1	W/(m K)	ISO 22007-2
Thermal Conductivity (in-plane)	3.6	W/(m K)	ASTM E 1461
Thermal Conductivity (through-plane)	1.5	W/(m K)	ASTM E 1461
Specific Heat Capacity	1.35	J/(g K)	-
Electrical Properties			
Surface Resistance	1E12	Ohm	DIN EN
Total 'ex Desistance (OTI)	000		62631-3-2
Tracking Resistance (CTI)	600	-	IEC 60112
Dielectric Strength	27	kV/mm	IEC 60243-1

Phone: + 49 (0) 40 78105-0

Print Date: 2025-07-15 13:25:59

Technical Data Sheet





ALCOM TCD PA6 5070 FR 15021

(Last update: 28.11.2019)

MCOM

Phoological Proportion

Spiral Flow (2 mm wall thickness)	20	cm	-
Physical Properties Density	1760	kg/m³	ISO 1183
Flammability			
Flammability (0.75 mm)	V-0	class	UL 94
Yellow Card available	yes	-	-
Flammability (1.5 mm)	V-0	class	UL 94
Yellow Card available	yes	-	-
Flammability (3.0 mm)	V-0	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 960°C, 1.0mm)	passed	-	DIN EN 60695

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.

Healthcare uses: the supply of any product by ALBIS for any medical, pharmaceutical or diagnostic application is conditional to an assessment by ALBIS in terms of compliance with ALBIS' internal risk management policy – even for products which are in general designated for use in Healthcare applications.

Important: irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

Phone: + 49 (0) 40 78105-0

Print Date: 2025-07-15 13:25:59

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.