

Technical Data Sheet

ALTECH ABS A 1000/139 AS

Polymeric basis:	acrylonitrile-butadiene-styrene-copolymer (ABS)
Filler system:	-
Processing:	injection moulding (T _{mass} : 220 - 260 °C, T _{mould} : 60 - 80 °C)
Special properties:	good flow, antistatic
Typical applications:	household appliances, business machines

Properties	Test figures	Units	Standards
Physical properties			
Density	1.06	g/cm ³	ISO 1183
Water absorption	0.3	%	DIN EN ISO 62
Mechanical properties *			
Tensile modulus	2,600	MPa	DIN EN ISO 527
Tensile strain at break	2.2	%	DIN EN ISO 527
Tensile stress at break	45	MPa	DIN EN ISO 527
Flexural modulus	2,550	MPa	DIN EN ISO 178
Flexural strength	65	MPa	DIN EN ISO 178
Charpy impact strength (23°C)	90-n.b.	kJ/m ²	DIN EN ISO 179/1eU
Charpy notched impact strength (23°C)	11.0	kJ/m ²	DIN EN ISO 179/1eA
Ball indentation hardness (358/10)	105	MPa	DIN EN ISO 2039-1
Thermal properties			
Heat deflection temperature HDT A (1.8 MPa)	85	°C	DIN EN ISO 75
Vicat softening point VST B/50	95	°C	DIN EN ISO 306
Electrical properties d/h			
Comparative tracking index (solution A)	600	-	IEC 112
Surface resistivity	1E15	Ohm	IEC 93
Specific volume resistivity	1E13	Ohm·cm	IEC 93
Further properties			
Flammability UL 94 (1.5 mm)	HB	class	UL 94
Melt volume rate MVR (220/10)	40	cm ³ /10 min	DIN ISO 1133

* testing on unconditioned test specimen (dry as moulded)

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