

Technical Data Sheet



**ALTECH ABS A 1000/106 YL1248-05LS**

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	Laser sensitive additive
Colour	yellow
Special Features	easy flow,injection moulding grade,laser etchable (dark etching)
Market Segment	various,electrical and electronic,building and construction
Application Area	domestic appliances,injection moulded parts
Typical Applications	various,functional components,housings

Pre-Drying Conditions	80 °C in an air circulating dryer for 3-6 h 80 °C in a dry air (dessiccant) dryer for 2-4 h dependant on moisture content max. moisture content <0,20 %
Processing Injection Moulding	melt temperature 200-240 °C mould temperature 50-80 °C
Storage	dry, protected from light

<b>Properties</b>	<b>Value</b>	<b>Dimension</b>	<b>Test Norm</b>
<b>Mechanical Properties</b>			
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress (3.5% Strain)	64	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	44	MPa	ISO 527
Tensile Elongation at Yield	2.3	%	ISO 527
Tensile Elongation at Break	19	%	ISO 527
Impact Strength (Charpy, 23°C)	95	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6.5	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	99	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	93	°C	ISO 306
HDT / A (1,8 MPa)	84	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	32	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
<b>Physical Properties</b>			
Density	1050	kg/m <sup>3</sup>	ISO 1183