

Badalac® ABS 10 TM-Z2

ABS

Bada AG

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	5.5	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1900	MPa	ISO 527
Yield stress	38	MPa	ISO 527
Yield strain	2.8	%	ISO 527
Nominal strain at break	9	%	ISO 527
Flexural strength	56	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	140	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	35	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	13	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	36	kJ/m ²	ISO 180/1A
Izod notched impact strength	14	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	96	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	101	°C	ISO 75-1/-2
Vicat softening temperature, A	103	°C	ISO 306
Vicat softening temperature, B	90	°C	ISO 306
Coeff. of linear therm. expansion, parallel	95	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	95	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	2.8	-	IEC 62631-2-1
Dissipation factor, 1MHz	82	E-4	IEC 62631-2-1
Volume resistivity	1E11	Ohm*m	IEC 62631-3-1
Surface resistivity	1E13	Ohm	IEC 62631-3-2
Electric strength	40	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
Water absorption	0.95	%	Sim. to ISO 62
Humidity absorption	0.24	%	Sim. to ISO 62
Density	1040	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	220 - 260	°C	-
Mold temperature	30 - 80	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Special Characteristics

High impact or impact modified