

Badalac® ABS 10 TM-Z2

Acrylonitrile Butadiene Styrene

Bada AG

Message:

ABS-I

Super tough grade suitable for injection moulding and extrusion

General Information			
Features	Ultra High Toughness		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.50	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.95	%	
Equilibrium, 23°C, 50% RH	0.24	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	1900	MPa	ISO 527-2/1
Tensile Stress ² (Yield, 23°C)	38.0	MPa	ISO 527-2/50
Tensile Strain ³ (Yield, 23°C)	2.8	%	ISO 527-2/50
Nominal Tensile Strain at Break ⁴ (23°C)	9.0	%	ISO 527-2/50
Flexural Stress ⁵ (23°C)	56.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶			ISO 179/1eA
-30°C	13	kJ/m ²	
23°C	35	kJ/m ²	
Charpy Unnotched Impact Strength ⁷			ISO 179/1eU
-30°C	140	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength ⁸			
-30°C	14	kJ/m ²	ISO 180
23°C	36	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁹			
0.45 MPa, Unannealed	101	°C	ISO 75-2/B
1.8 MPa, Unannealed	96.0	°C	ISO 75-2/A
Vicat Softening Temperature ¹⁰			
--	103	°C	ISO 306/A50

--	90.0	°C	ISO 306/B50
CLTE - Flow ¹¹	8.0E-5 to 1.1E-4	cm/cm/°C	DIN 53752
Maximum Service Temperature - 20000 hrs	80	°C	IEC 216
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹²	1.0E+13	ohms	IEC 60093
Volume Resistivity ¹³	1.0E+13	ohms·cm	IEC 60093
Electric Strength ¹⁴	5.5	kV/mm	IEC 60243-1
Relative Permittivity ¹⁵ (1 MHz)	2.80		IEC 60250
Dissipation Factor ¹⁶ (1 MHz)	8.2E-3		IEC 60250
Comparative Tracking Index	1.04	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹⁷ (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	30.0 to 60.0	°C	
NOTE			
1.	Test Specimen accordng to ISO 3167, Type A		
2.	Test Specimen accordng to ISO 3167, Type A		
3.	Test Specimen accordng to ISO 3167, Type A		
4.	Test Specimen accordng to ISO 3167, Type A		
5.	80x10x4 mm		
6.	80x10x4 mm		
7.	80x10x4 mm		
8.	80x10x4 mm		
9.	110x10x4 mm		
10.	Compound for moulding		
11.	>=10x10x4 mm		
12.	80x80x1 mm		
13.	80x80x1 mm		
14.	80x80x1 mm		
15.	80x80x1 mm		
16.	80x80x1 mm		
17.	125x13x0.8 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

