

Badalac® ABS 20 HH

Acrylonitrile Butadiene Styrene

Bada AG

Message:

Injection moulding grade, high resistance to heat deformation, high impact resistance

General Information			
Features	High Heat Resistance		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	7.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	1.0	%	
Equilibrium, 23°C, 50% RH	0.22	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	51.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	3.0	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	9.0	%	ISO 527-2/50
Flexural Stress ¹ (23°C)	72.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ²			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	17	kJ/m ²	
Charpy Unnotched Impact Strength ³			ISO 179/1eU
-30°C	100	kJ/m ²	
23°C	190	kJ/m ²	
Notched Izod Impact Strength ⁴ (23°C)	19	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed	111	°C	ISO 75-2/B
1.8 MPa, Unannealed	106	°C	ISO 75-2/A
Vicat Softening Temperature			
--	112	°C	ISO 306/A50
--	106	°C	ISO 306/B50
CLTE - Flow ⁶	8.0E-5 to 1.1E-4	cm/cm/°C	DIN 53752

Maximum Service Temperature - 20000 hrs	90	°C	IEC 216
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁷	1.0E+13	ohms	IEC 60093
Volume Resistivity ⁸	1.0E+13	ohms·cm	IEC 60093
Electric Strength ⁹	37	kV/mm	IEC 60243-1
Relative Permittivity ¹⁰ (1 MHz)	2.80		IEC 60250
Dissipation Factor ¹¹ (1 MHz)	7.9E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm ¹²	HB		
1.60 mm ¹³	HB		
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.	80x10x4 mm		
2.	80x10x4 mm		
3.	80x10x4 mm		
4.	80x10x4 mm		
5.	110x10x4 mm		
6.	>=10x10x4 mm		
7.	80x80x1 mm		
8.	80x80x1 mm		
9.	80x80x1 mm		
10.	80x80x1 mm		
11.	80x80x1 mm		
12.	125x13x0.8 mm		
13.	125x13x1.6 mm		

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