

Badalac® ABS 20 GK30

Acrylonitrile Butadiene Styrene

Bada AG

Message:

Easy flowing, 30% glass beads filled standard injection moulding grade

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Features	Good Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.16	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	12.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.18	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	3150	MPa	ISO 527-2/1
Tensile Stress ² (Yield, 23°C)	48.0	MPa	ISO 527-2/50
Tensile Strain ³ (Yield, 23°C)	2.5	%	ISO 527-2/50
Nominal Tensile Strain at Break ⁴ (23°C)	7.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁶ (23°C)	70	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed	106	°C	ISO 75-2/B
1.8 MPa, Unannealed	101	°C	ISO 75-2/A
Vicat Softening Temperature ⁸			
--	108	°C	ISO 306/A50
--	98.0	°C	ISO 306/B50
Maximum Service Temperature - 20000 hrs	80	°C	IEC 216
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁹	1.0E+13	ohms	IEC 60093
Volume Resistivity ¹⁰	1.0E+13	ohms · cm	IEC 60093
Electric Strength ¹¹	37	kV/mm	IEC 60243-1
Relative Permittivity ¹² (1 MHz)	2.80		IEC 60250
Dissipation Factor ¹³ (1 MHz)	7.9E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method

Flame Rating ¹⁴ (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.	110x10x4 mm	
8.	Compound for moulding	
9.	80x80x1 mm	
10.	80x80x1 mm	
11.	80x80x1 mm	
12.	80x80x1 mm	
13.	80x80x1 mm	
14.	125x13x0.8 mm	

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