

Badalac® ABS 20 GF30

Acrylonitrile Butadiene Styrene

Bada AG

Message:

Easy flowing, 30% glass fibres reinforced standard injection moulding grade

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.23	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.70	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	8800	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	90.0	MPa	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴ (23°C)	35	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ⁵	107	°C	ISO 306/A50
Maximum Service Temperature - 20000 hrs	80	°C	IEC 216
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁶	1.0E+13	ohms	IEC 60093
Volume Resistivity ⁷	1.0E+13	ohms · cm	IEC 60093
Electric Strength ⁸	37	kV/mm	IEC 60243-1
Relative Permittivity ⁹ (1 MHz)	2.80		IEC 60250
Dissipation Factor ¹⁰ (1 MHz)	7.9E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹¹ (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 according to ISO 3167, Type A
2.	Test Specimen according to ISO 3167, Type A
3.	80x10x4 mm
4.	80x10x4 mm
5.	Compound for moulding
6.	80x80x1 mm
7.	80x80x1 mm
8.	80x80x1 mm
9.	80x80x1 mm
10.	80x80x1 mm
11.	125x13x0.8 mm

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