

Badalac® ABS 30 FR

Acrylonitrile Butadiene Styrene

Bada AG

Message:

Badalac® ABS 30 FR is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Europe for injection molding.

Important attributes of Badalac® ABS 30 FR are:

Flame Rated

Flame Retardant

High Flow

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	High Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	34.0	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 (23°C)	2550	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	40.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	2.3	%	ISO 527-2/50
Flexural Stress (23°C)	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	99.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	94.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	102	°C	ISO 306/B50
--	95.0	°C	ISO 306/B120
CLTE - Flow	8.0E-5 to 1.1E-4	cm/cm/°C	DIN 53752
Maximum Service Temperature	80	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093

Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Electric Strength	38	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.80		IEC 60250
Dissipation Factor (1 MHz)	7.9E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	750	°C	IEC 60695-2-13
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	

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