

ABSCOM® S180

Acrylonitrile Butadiene Styrene
Polymer Compounds Limited

Message:

ABSCOM S180 is a high gloss, high impact ABS grade used for injection moulding.

General Information			
Features	High Gloss		
	High Impact Resistance		
Agency Ratings	FDA Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	1.0	%	
Equilibrium, 23°C, 50% RH	0.22	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/1
Tensile Stress			
Yield	43.0	MPa	ISO 527-2/50
Yield, -40°C	63.0	MPa	ISO 527-2
Yield, 80°C	18.0	MPa	ISO 527-2
Tensile Strain			
Yield	2.6	%	ISO 527-2/50
Yield, -40°C	3.6	%	ISO 527-2
Yield, 80°C	2.4	%	ISO 527-2
Break	18	%	ISO 527-2
Flexural Stress	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	29	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	30	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	89.0	°C	ISO 75-2/Be

1.8 MPa, Unannealed	85.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	94.0	°C	ISO 306/B50
CLTE - Flow	9.5E-4	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.50 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	240	°C	
Mold Temperature	60.0	°C	
Injection Velocity	65	mm/sec	

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