

ABSCOM® S106

Acrylonitrile Butadiene Styrene
Polymer Compounds Limited

Message:

ABSCOM S106 is a general purpose ABS grade with a high tensile modulus used in ABS applications requiring a degree of rigidity.

General Information			
Features	General Purpose		
Uses	General Purpose		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	17	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	2500	MPa	ISO 527-2/1
Tensile Stress			
Yield	49.0	MPa	ISO 527-2/50
Yield, -40°C	66.0	MPa	ISO 527-2
Yield, 80°C	21.0	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	12	%	ISO 527-2
Flexural Stress	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	16	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	96.0	°C	ISO 75-2/Be
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	100	°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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