

ASACOM™ S5000

Acrylonitrile Styrene Acrylate
Polymer Compounds Limited

Message:

ASACOM S5000 is an easy flowing injection moulding grade ASA with exceptional weathering performance. Applications include automotive exterior covers and gardening equipment.

General Information			
Features	Good Flow		
	Good Weather Resistance		
Uses	Automotive Exterior Parts		
	Lawn and Garden Equipment		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	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	2000	MPa	ISO 527-2/1
Tensile Stress			
Yield	35.0	MPa	ISO 527-2/50
Yield, -40°C	63.0	MPa	ISO 527-2
Yield, 80°C	19.0	MPa	ISO 527-2
Tensile Strain			
Yield	3.6	%	ISO 527-2/50
Yield, -40°C	3.6	%	ISO 527-2
Yield, 80°C	2.4	%	ISO 527-2
Break	40	%	ISO 527-2
Flexural Stress	58.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	22	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	150	kJ/m ²	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	90.0	°C	ISO 75-2/Be
1.8 MPa, Unannealed	79.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	90.0	°C	ISO 306/B50
CLTE - Flow	9.0E-5	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	60	mm/sec	

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