

# Spartech Polycom SC1-4000

Acrylonitrile Butadiene Styrene

Spartech Polycom

Message:

Spartech SC1-4000 is a medium viscosity, high gloss, ABS resin for injection molding. It is heat stabilized and lubricated for good processing characteristics, and it exhibits good impact and chemical resistance.

With the benefit of low moisture absorption, ABS can be used in a variety of environments. Being a very versatile product, SC1-4000 can be used for industrial, transportation, sporting goods and electrical/electronic applications.

General Information			
Additive	heat stabilizer		
	Lubricant		
Features	Low hygroscopicity		
	Highlight		
	Impact resistance, good		
	Workability, good		
	Good chemical resistance		
	Thermal Stability		
	Thermal stability, good		
	Lubrication		
Uses	Medium viscosity		
	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
Appearance	Sporting goods		
	Available colors		
Forms	Natural color		
	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	42.7	MPa	ASTM D638
Flexural Modulus (23°C)	2480	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	75.8	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	93.0	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	87.8	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	210 - 240	°C	
Middle Temperature	215 - 245	°C	
Front Temperature	220 - 250	°C	
Nozzle Temperature	218 - 260	°C	
Processing (Melt) Temp	218 - 260	°C	
Mold Temperature	43.3 - 65.6	°C	

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#### Recommended distributors for this material

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