

Spartech Polycom SC1-5005F

Acrylonitrile Butadiene Styrene

Spartech Polycom

Message:

Spartech SC1-5005F is a medium viscosity ABS resin for injection molding that is approved by the FDA for use as a component in repeated food contact surface applications. 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, SC1-5005F can be used for industrial, transportation, sporting goods and electrical/electronic applications.

General Information			
Additive	heat stabilizer		
	Lubricant		
Features	Low hygroscopicity		
	Impact resistance, good		
	Workability, good		
	Good chemical resistance		
	Thermal Stability		
	Thermal stability, good		
	Lubrication		
	Compliance of Food Exposure		
	Medium viscosity		
Uses	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
	Sporting goods		
Agency Ratings	FDA Food Exposure, Not Rated		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	9.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	41.4	MPa	ASTM D638
Flexural Modulus (23°C)	2340	MPa	ASTM D790
Flexural Strength (23°C)	72.4	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	98.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.57 mm, NC)	HB		UL 94
Additional Information			
Melt Flow Rate, ASTM D1238: 8-11 g/10 min			
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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