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.

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 Proces	General Information				
Features Low hygroscopicity Impact resistance, good Workability, good Good chemical resistance Thermal Stability Thermal	Additive	heat stabilizer			
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MechanicalNominal ValueUnitTest MethodTensile Strength (Yield, 23°C)41.4MPaASTM D638Flexural Modulus (23°C)2340MPaASTM D790	Specific Gravity	1.04	g/cm³	ASTM D792	
Tensile Strength (Yield, 23°C) 41.4 MPa ASTM D638 Flexural Modulus (23°C) 2340 MPa ASTM D790	Melt Mass-Flow Rate (MFR)	9.5	g/10 min	ASTM D1238	
Flexural Modulus (23°C) 2340 MPa ASTM D790	Mechanical	Nominal Value	Unit	Test Method	
	Tensile Strength (Yield, 23°C)	41.4	MPa	ASTM D638	
Flexural Strength (23°C) 72.4 MPa ASTM D790	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)	НВ		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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