

Spartech Polycom SC5-2010

Polypropylene Copolymer

Spartech Polycom

Message:

Spartech SC5-2010 is a medium viscosity PP copolymer resin for injection molding that features excellent long term heat aging properties, enhance weld line strength and a superior balance of stiffness and impact strength. This product complies with FDA regulations and thus may be safely used in food contact and packaging applications.

Polypropylene is a versatile thermoplastic offering a useful balance of heat and chemical resistance, good mechanical and electrical properties and processing ease. PP is resistant to deformation at elevated temperatures and resistant to impact at low temperatures.

A very versatile product for a wide variety of applications, Spartech SC5-2010 is recommended for industrial, automotive parts, battery containers and consumer products.

General Information			
Features	Rigid, good		
	High strength		
	Copolymer		
	Impact resistance, good		
	Workability, good		
	Good electrical performance		
	Good heat aging resistance		
	Low temperature impact resistance		
	Good chemical resistance		
	Heat resistance, high		
	Compliance of Food Exposure		
	Medium viscosity		
Uses	Battery box		
	Industrial application		
	Application in Automobile Field		
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	0.898	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	23.4	MPa	ASTM D638
Flexural Modulus (23°C)	993	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	100	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	90.6	°C	
Drying Time	1.0	hr	
Rear Temperature	216 - 227	°C	
Middle Temperature	221 - 232	°C	
Front Temperature	227 - 238	°C	
Nozzle Temperature	232 - 243	°C	
Processing (Melt) Temp	204 - 260	°C	
Mold Temperature	26.7 - 37.8	°C	

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