

Spartech Polycom SCR7-7010RF

Polycarbonate

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Message:

Spartech SCR7-7010RF is a medium viscosity PC resin for injection molding that features a mold release package and is FDA approved. It is heat stabilized and lubricated for good processing characteristics.

Polycarbonate resins span a wide range of physical properties that combine to make it one of the toughest, most versatile of all engineering thermoplastics. It is well known for its exceptional impact resistance, plus it has outstanding mechanical, electrical, and optical properties.

A very versatile product for a wide variety of applications, Spartech SCR7-7010RF is recommended for industrial, transportation, sporting goods and electrical/electronic applications.

General Information			
Additive	heat stabilizer		
	Lubricant		
	demoulding		
Features	Impact resistance, high		
	Workability, good		
	Good electrical performance		
	Thermal Stability		
	Thermal stability, good		
	Good toughness		
	Lubrication		
	Good demoulding performance		
	Medium viscosity		
Uses	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
	Sporting goods		
Agency Ratings	FDA not rated		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	62.1	MPa	ASTM D638

Tensile Elongation (Break, 23°C)	120	%	ASTM D638
Flexural Modulus (23°C)	2340	MPa	ASTM D790
Flexural Strength (23°C)	94.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	770	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	137	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	266 - 277	°C	
Middle Temperature	271 - 282	°C	
Front Temperature	282 - 299	°C	
Nozzle Temperature	277 - 304	°C	
Processing (Melt) Temp	288 - 316	°C	
Mold Temperature	71.1 - 93.3	°C	

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