

Spartech Polycom SC2-1090U

High Impact Polystyrene

Spartech Polycom

Message:

Spartech SC2-1090U is a medium viscosity, high impact polystyrene (HIPS) resin for injection molding that features a UV stabilizer. It is heat stabilized and lubricated for good processing characteristics.

HIPS are rubber modified styrenics that typically contain 1-10% rubber by weight. They offer dimensional and physical stability in moist environments and provide good chemical resistance. These materials also exhibit good flexibility along with good toughness.

A very versatile product for a wide variety of applications, Spartech SC2-1090U is recommended for industrial, transportation, sporting goods and electrical/electronic applications.

General Information			
Additive	heat stabilizer		
	Lubricant		
	UV stabilizer		
Features	Good dimensional stability		
	Impact resistance, good		
	Good UV resistance		
	Workability, good		
	Good flexibility		
	Good chemical resistance		
	Thermal Stability		
	Thermal stability, good		
	Good toughness		
	Lubrication		
	Medium viscosity		
Uses	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
	Sporting goods		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR)	9.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	22.8	MPa	ASTM D638

Tensile Elongation (Break, 23°C)	40	%	ASTM D638
Flexural Modulus (23°C)	2410	MPa	ASTM D790
Flexural Strength (23°C)	43.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	78.5	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	2.0	hr	
Rear Temperature	200 - 220	°C	
Middle Temperature	205 - 225	°C	
Front Temperature	210 - 230	°C	
Nozzle Temperature	210 - 230	°C	
Processing (Melt) Temp	191 - 260	°C	
Mold Temperature	26.7 - 48.9	°C	

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