

Spartech Polycom SCR2-1082

High Impact Polystyrene

Spartech Polycom

Message:

Spartech SCR2-1082 is a soft flow high impact polystyrene (HIPS) resin for injection molding that is approved by the FDA. It also meets Underwriter's Laboratories requirements for 94 HB classification.

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 SCR2-1082 is recommended for appliance, housewares, toys and electronic applications.

General Information			
Features	Good dimensional stability		
	Impact resistance, good		
	Good liquidity		
	Good flexibility		
	Good chemical resistance		
	Thermal stability, good		
	Good toughness		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Household goods		
	Toys		
Agency Ratings	FDA not rated		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	6.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	20.7	MPa	ASTM D638
Flexural Modulus (23°C)	2070	MPa	ASTM D790
Flexural Strength (23°C)	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Annealed)	78.9	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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 - 271	°C	
Mold Temperature	32.2 - 76.7	°C	

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