

Spartech Polycom SC2-1087

High Impact Polystyrene

Spartech Polycom

Message:

Spartech SC2-1087 is a high impact polystyrene (HIPS) resin for injection/extrusion molding applications. In addition to its high gloss characteristics, it also provides a good balance of toughness and rigidity. 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 SC2-1087 is recommended for appliances, housewares, toys, thermoformed and molded packaging, and custom sheet extrusion.

General Information	
Features	Good dimensional stability Rigidity, high Highlight Good flexibility Good chemical resistance Thermal stability, good Good toughness
Uses	Packaging Electrical appliances Household goods Sheet Toys
Appearance	Available colors Natural color
Forms	Particle
Processing Method	Extrusion Sheet extrusion molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	25.2	MPa	ASTM D638
Flexural Modulus (23°C)	2170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	91.1	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	80		ASTM D523
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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