

# Spartech Polycom SC2-1085

## General Purpose Polystyrene

### Spartech Polycom

#### Message:

Spartech SC2-1085 is a medium viscosity, crystal polystyrene (PS) resin for injection/extrusion molding. It is heat stabilized and lubricated for good processing characteristics.

Polystyrene resins exhibit good impact properties. 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 SC2-1085 is recommended for industrial, housewares, toys, sporting goods and electrical/electronic applications.

General Information	
Additive	heat stabilizer Lubricant
Features	Good dimensional stability Impact resistance, good Workability, good Good flexibility Good chemical resistance Thermal Stability Thermal stability, good Good toughness Lubrication Medium viscosity
Uses	Electrical/Electronic Applications Industrial application Household goods Sporting goods Toys
Appearance	Available colors Natural color
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	7.0	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	42.7	MPa	ASTM D638
Flexural Modulus (23°C)	3450	MPa	ASTM D790
Flexural Strength (23°C)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	85.0	°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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#### Recommended distributors for this material

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