

Spartech Polycom SC5-12B40

Polypropylene Homopolymer

Spartech Polycom

Message:

Spartech SC5-12B40 is a high viscosity, chemically coupled, PP homopolymer resin for injection molding that features 40% glass fiber reinforcement. It is heat stabilized and lubricated for good processing characteristics.

Polypropylene is a versatile thermoplastic offering a useful balance of heat and chemical resistance, good mechanical and electrical properties and processing ease. PP is resistant to deformation at elevated temperatures, it has good clarity and is resistant to impact at low temperatures.

A very versatile product for a wide variety of applications, Spartech SC5-12B40 is recommended for industrial, transportation, sporting goods and electrical/electronic applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	heat stabilizer		
	Lubricant		
Features	Chemical coupling		
	Homopolymer		
	Workability, good		
	Good electrical performance		
	Low temperature impact resistance		
	Good chemical resistance		
	Heat resistance, high		
	Definition, high		
	Thermal Stability		
	Thermal stability, good		
	Lubrication		
	Viscosity, High		
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
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	5.0	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	81.0	MPa	ASTM D638
Flexural Modulus (23°C)	6030	MPa	ASTM D790
Flexural Strength (23°C)	114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	90.6	°C	
Drying Time	1.0	hr	
Rear Temperature	216 - 227	°C	
Middle Temperature	221 - 232	°C	
Front Temperature	227 - 238	°C	
Nozzle Temperature	232 - 243	°C	
Processing (Melt) Temp	204 - 260	°C	
Mold Temperature	26.7 - 37.8	°C	

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