

Spartech Polycom SC1-1230

Acrylonitrile Butadiene Styrene

Spartech Polycom

Message:

Spartech SC1-1230 is a medium viscosity ABS resin for injection molding that features 30% glass fiber reinforcement. It is heat stabilized and lubricated for good processing characteristics, and it exhibits good impact and chemical resistance. With the addition of the glass, this grade has increased strength and modulus properties.

With the benefit of low moisture absorption, ABS can be used in a variety of environments. Being a very versatile product, SC1-1230 can be used for industrial, transportation, sporting goods and electrical/electronic applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
	Lubricant		
Features	Low hygroscopicity		
	High strength		
	Impact resistance, good		
	Workability, good		
	Good chemical resistance		
	Thermal Stability		
	Thermal stability, good		
	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
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	2.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	72.4	MPa	ASTM D638
Flexural Modulus (23°C)	5550	MPa	ASTM D790

Flexural Strength (23°C)	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	107	°C	ASTM D648
1.8 MPa, not annealed	99.0	°C	ASTM D648
Additional Information			
Melt Flow Rate, ASTM D1238: 1-4 g/10 min			
Injection	Nominal Value	Unit	
Drying Temperature	87.8	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	210 - 240	°C	
Middle Temperature	215 - 245	°C	
Front Temperature	220 - 250	°C	
Nozzle Temperature	218 - 260	°C	
Processing (Melt) Temp	218 - 260	°C	
Mold Temperature	43.3 - 65.6	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

