Next PPS PPSG65-01BK

Polyphenylene Sulfide

Next Polymers Ltd.

Message:

Description
Polyphenylene Sulfide Glass Fiber Reinforced Black Compound
Product Applications
High Performance plactic materials that are used a wide spectrum of applications Appliance, Automotive, Electric/Electronics, industrial & medical Technology etc
Benefits
Good combination between Mechanical and electrical properties. Exceptional degree of inherent thermal stability, chemical resistance & flame resistance

General Information			
Filler / Reinforcement	Glass Fiber,65% Filler by Weight		
Features	Flame Retardant Good Chemical Resistance Good Electrical Properties Good Thermal Stability		
Uses	Appliances Automotive Applications Electrical/Electronic Applications Industrial Applications Medical/Healthcare Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.95	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	
Across Flow	0.20	%	
Water Absorption			ASTM D570
23°C, 24 hr	0.020	%	
Saturation [1]	4.2	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	100		
R-Scale	110		
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	18000	MPa	ASTM D638
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	17500	MPa	ASTM D790
Flexural Strength	205	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	280	°C	
1.8 MPa, Unannealed	270	°C	
Melting Temperature	285	°C	ASTM D2117
RTI Elec	240	°C	UL 746
RTI Imp	220	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	22	kV/mm	IEC 60243-1
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	130	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	290 to 300	°C	
Middle Temperature	310 to 320	°C	
Front Temperature	310 to 320	°C	
Mold Temperature	135 to 149	°C	
NOTE			
1.	Immersed		

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


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