

Next PPS PPSG40AW-02BK

Polyphenylene Sulfide
Next Polymers Ltd.

Message:

Description
Polyphenylene Sulfide Glass Fiber Reinforced Anti wear Black Compound
Product Applications
This is High performance material & This grade is used for Appliance, Automotive, Electric/Electronics, & industrial Application
Benefits
Better dimensional stability, wear & abrasion properties, High thermal stability, chemical resistance & flame resistance

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Flame Retardant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Thermal Stability		
	Good Wear Resistance		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Industrial 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	1.70	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	
Across Flow	0.25	%	
Water Absorption			ASTM D570
23°C, 24 hr	0.040	%	
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	7800	MPa	ASTM D638
Tensile Strength	100	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6800	MPa	ASTM D790
Flexural Strength	160	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	275	°C	
1.8 MPa, Unannealed	260	°C	
Melting Temperature	280	°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+13	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	26	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	130 to 145	°C	
NOTE			
1.	Immersed		

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