Next PPS PPSG40-02BK

Polyphenylene Sulfide

Next Polymers Ltd.

Message:

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

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Flame Retardant Good Chemical Resistance Good Dimensional Stability Good Thermal Stability		
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	1.65	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	
Across Flow	0.22	%	
Water Absorption			ASTM D570
23°C, 24 hr	0.040	%	
Saturation [1]	4.1	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	100		
R-Scale	115		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8100	MPa	ASTM D638
Tensile Strength	100	MPa	ASTM D638

Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6800	MPa	ASTM D790
Flexural Strength	165	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		

Recommended distributors for this material

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