S&E; Battery GPP6100-116C

Compounded Polypropylene

S&E; Specialty Polymers, LLC

Message:

Specially engineered, low bloom, low specific gravity, flame retardant polypropylene compound designed with halogen based technology. Exhibits a unique balance of high flexural modulus and high impact. It is designed for use in injection molded industrial power supply systems and to meet their stringent criterion. The superior balance of flow, allows the material to maintain excellent aesthetics over long flow lengths. Available in a wide spectrum of colors.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant High Impact Resistance Low Blooming Low Density		
Uses	Batteries		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.14 to 1.17	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16 to 20	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	> 26.2	MPa	
Break	> 17.9	MPa	
Tensile Elongation (Break)	> 28	%	ASTM D638
Flexural Modulus - Tangent	2240	MPa	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	> 32	J/m	ASTM D256
Gardner Impact [1]	> 12.6	J	ASTM D3029
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	107	°C	
1.8 MPa, Unannealed	54.6	°C	
Vicat Softening Temperature	149	°C	ASTM D1525
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength [2] (3.40 mm)	19	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	V-0		UL 94

Oxygen Index	> 25	%	ASTM D2863

Additional Information	Nominal Value	Unit	Test Method
Breakdown Voltage	64000	V	ASTM D149
Electro-Chemical Compatibility	Pass		

NOTE	
1.	Geometry GB
2.	Method A (Short-Time)

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Recommended distributors for this material

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