

S&E Specialty Polymers GPP6100-116C PP

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

Application: 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. Information provided by S&E Specialty Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_SE-Specialty-Polymers-GPP6100-116C-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 - 1.17 g/cc	1.14 - 1.17 g/cc	ASTM D792
Melt Flow	16 - 20 g/10 min	16 - 20 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 17.9 MPa	>= 2600 psi	ASTM D638
Tensile Strength, Yield	>= 26.2 MPa	>= 3800 psi	ASTM D638
Elongation at Break	>= 28 %	>= 28 %	ASTM D638
Flexural Modulus	2.24 GPa	325 ksi	Tangent, Method B; ASTM D790
Izod Impact, Notched	>= 0.320 J/cm	>= 0.600 ft-lb/in	ASTM D256
	0.454 J/cm	0.850 ft-lb/in	nominal; ASTM D256
Gardner Impact	>= 12.6 J	>= 9.30 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	>= 107.4 °C	>= 225.3 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.6 °C	130 °F	ASTM D648
Vicat Softening Point	148.6 °C	299.5 °F	ASTM D1525
Flammability Test	5.0 @Thickness 1.59 mm	5.0 @Thickness 0.0625 in	
Oxygen Index	>= 25 %	>= 25 %	ASTM D2863

Electrical Properties	Metric	English	Comments
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Electrical Properties	18.9 kV/mm Metric	480 kV/in English	Comments
Dielectric Strength	@Thickness 3.40 mm	@Thickness 0.134 in	Method A, ASTM D419
Dielectric Breakdown	64000 V	64000 V	ASTM D149

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