

Ecomass® 5100TU96

Styrene Ethylene Butylene Styrene Block Copolymer

Ecomass Technologies

Message:

Ecomass® 5100TU96 is a Styrene Ethylene Butylene Styrene Block Copolymer (SEBS) material filled with tungsten. It is available in North America for injection molding.

Important attributes of Ecomass® 5100TU96 are:

- Copolymer
- Good Flexibility
- Good Toughness
- Non-Toxic

General Information			
Filler / Reinforcement	Tungsten		
Features	Block Copolymer		
	Good Flexibility		
	High Specific Gravity		
	Non-Toxic		
	Ultra High Toughness		
Uses	Radiation Shielding		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	11.0	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	23		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	1.35	MPa	ASTM D638
Tensile Elongation (Break)	180	%	ASTM D638
Flexural Modulus	91.7	MPa	ASTM D790
Flexural Strength	2.66	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Injection	Nominal Value	Unit	
Processing (Melt) Temp	149 to 204	°C	
Mold Temperature	21.1 to 37.8	°C	

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