

Ecomass® 5100TU96

Ecomass Technologies - Styrene Ethylene Butylene Styrene Block Copolymer

General Information

Product Description

Ecomass® Compound 5100TU96. Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications.

Features: High Specific Gravity, Tungsten Powder Filled SEBS Base Resin, Very Flexible.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Tungsten
Features	• Block Copolymer • High Specific Gravity • Good Flexibility • Non-Toxic
Uses	• Radiation Shielding
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	11.0		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	145	psi	ASTM D638
Tensile Elongation (Break)	180	%	ASTM D638
Flexural Modulus	13300	psi	ASTM D790
Flexural Strength	435	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	23		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	302 to 401	°F
Mold Temperature	68 to 104	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

