

Ecomass® 4703BI62

Ecomass Technologies - Thermoplastic Polyurethane Elastomer

General Information

Product Description

Ecomass® Compound 4703BI62. Nontoxic alternative to Lead (Pb), radiation shielding applications.

Features: Moderate Specific Gravity, Filled Polyurethane (TPU), Good Flexibility.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Filler
Features	• Good Flexibility • Medium Density • Non-Toxic
Uses	• Radiation Shielding
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	2.21		ASTM D792
Molding Shrinkage - Flow	7.0E-3 to 9.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	82100	psi	ASTM D638
Tensile Strength	3050	psi	ASTM D638
Tensile Elongation (Break)	230	%	ASTM D638
Flexural Modulus	21000	psi	ASTM D790
Flexural Strength	6240	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	5.0	ft·lb/in	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	2.0	hr
Processing (Melt) Temp	401 to 428	°F
Mold Temperature	50 to 77	°F

Notes

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

