

## Ecomass® 4703BI74

Ecomass Technologies - Thermoplastic Polyurethane Elastomer

### General Information

#### Product Description

Ecomass® Compound 4703BI74. 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 <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	2.61		ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	80000	psi	ASTM D638
Tensile Strength	2760	psi	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	25000	psi	ASTM D790
Flexural Strength	6380	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	4.5	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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

