

Ecomass® 705ZD70

Ecomass Technologies - Acrylonitrile Butadiene Styrene

General Information

Product Description

Ecomass® Compound 705ZD70. Nontoxic alternative to Lead (Pb) for radiation shielding applications.

Features: High Specific Gravity, Tungsten Filled ABS Compound, Rigid, Good Toughness.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	3.00	g/cm ³	ISO 1183
Molding Shrinkage - Flow (0.157 in)	4.0E-3 to 6.0E-3	in/in	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	4350	psi	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	421000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	2.9	ft·lb/in ²	ISO 180/A

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	158 to 185	°F
Drying Time	2.0 to 4.0	hr
Melt Temperature	482 to 549	°F

Notes

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

