


Technical Data Sheet

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Preliminary

Material:  **Ecomass[®] Compound 705ZD70**
Nontoxic alternative to Lead (Pb) for radiation shielding applications

Description / Features: High Specific Gravity, Tungsten Filled ABS Compound, Rigid, Good Toughness
Processing Method: Extrusion

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	ISO 1183	3.00	g/cc
Mechanical Properties			
Tensile Strength	ISO 527	30	MPa
Tensile Elongation at Break	ISO 527	Not Tested	%
Flexural Modulus	ISO 178	2,900	MPa
Izod Impact Strength	ISO 180/A	6.0	kJ/m ²
Processing Information			
Melt Temperature Range		480 - 550	°F
Mold Temperature Range		100 - 150	°F
Mold Shrinkage Rate (4mm)		.004-.006	mm/mm
Pre-Drying Conditions		2 - 4 Hours @ 160 - 180F	

The information provided above is based on laboratory testing using test methods indicated and is believed to represent nominal results of those tests. Because conditions under which this material may be processed, tested or used cannot be anticipated, no warranty is given, either expressed or implied, as to the accuracy or reproducibility of this information or for the fitness of this material for any particular use. This material is sold with the express understanding that purchasers, processors or other users of this material have sole responsibility, through performance of their own testing, to determine the suitability of this material for any particular use.

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