



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/m2
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	

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