



Technical Data Sheet

4101 Parkstone Heights Drive, Suite 380
Austin, Texas 78746-7482
512-306-0020

Material: Ecomass® Compound 4703BI74

Nontoxic alternative to Lead (Pb), radiation shielding applications

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

Processing Method: Injection Molding

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	ASTM D792	2.60	
Mechanical Properties			
Tensile Strength	ASTM D638	2,800	psi
Tensile Modulus	ASTM D638	80,000	psi
Tensile Elongation at Break	ASTM D638	200	%
Flexural Modulus	ASTM D790	25,000	psi
Flexural Strength	ASTM D790	6,400	psi
Izod Impact Strength	ASTM D256	4.50	ft-lb/in
Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	N/A	°F
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°F
Electrical Properties			
Surface Resistivity	ASTM D257	N/A	ohms/sq
Processing Information			
Melt Temperature Range		400 - 430	°F
Mold Temperature Range		50 -80	°F
Mold Shrinkage Rate	ASTM D955	0.006 - 0.008	in/in
Pre-Drying Conditions		2hrs @ 180 °F (do not over-dry)	

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