

## **Technical Data Sheet**

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Material: Ecomass<sup>®</sup> Compound 4703ZB92

Nontoxic alternative to Lead (Pb), radiation shielding applications

Description / Features: Moderate Specific Gravity, Filled Polyurethane (TPU) Base Resin

Processing Method: Injection Molding

Physical Properties					
		English		SI	
	Test Method	Value	Units	Value	Units
Physical Properties					
Product Form		Pellets		Pellets	
Density	ASTM D792	6.90	g/cc	6.90	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	1,600	psi	11	MPa
Tensile Modulus	ASTM D638	97,000	psi	669	MPa
Tensile Elongation at Break	ASTM D638	15	%	15	%
Flexural Modulus	ASTM D790	65,000	psi	448	MPa
Flexural Strength	ASTM D790	3,000	psi	21	MPa
Izod Impact Strength, notched	ASTM D256	3.0	ft-lb/in	160	J/m
Processing Information					
Melt Temperature Range		400 - 430	°F	205 - 220	°C
Mold Temperature Range		50 - 80	°F	10 - 25	°C
Mold Shrinkage Rate		0.003 - 0.005	in/in	0.3 - 0.5	%
Pre-Drying Conditions	(do not over-dry)	2 hrs at 185°F		2 hrs at 80 °C	

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