Technical Data Sheet

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Material: **Ecomass® Compound 4150TU96**

Nontoxic alternative to Lead (Pb), radiation shielding, weighting, and balancing applications

Description / Features: High Specific Gravity, Tungsten Powder Filled Polyphenylene Sulfide (PPS)

Processing Method: Injection Molding

Physical Properties

		English		SI	
	Test Method	Value	Units	Value	Units
Physical Properties					
Product Form		Pellets		Pellets	
Density	ASTM D792	11.00	g/cc	11.00	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	6,500	psi	45	MPa
Tensile Modulus	ASTM D638	1,400,000	psi	9,655	MPa
Tensile Elongation at Break	ASTM D638	1	%	1	%
Flexural Modulus	ASTM D790	1,220,000	psi	8,414	MPa
Flexural Strength	ASTM D790	9,200	psi	63	MPa
Izod Impact Strength, notched	ASTM D256	1.0	ft-lb/in	54	J/m
Thermal Properties					
Heat Deflection Temperature at 66 psi	ASTM D648	392	°F	200	°C
Heat Deflection Temperature at 264 psi	ASTM D648	221	°F	105	°C
Processing Information					
Melt Temperature Range		600 - 650	°F	315 - 345	°C
Mold Temperature Range		275 - 300	°F	135 - 150	°C
Mold Shrinkage Rate	ASTM D955	0.008 - 0.010	in/in	0.8 - 1.0	%
Pre-Drying Conditions		4 hrs @ 250°F		4 hrs @ 120 °C	