

Technical Data Sheet

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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:** Injection Molding / Extrusion

Physical Properties						
			English		SI	
		Test Method	Value	Units	Value	Units
Physical Properties						
Product Form			Pellets		Pellets	
Density		ISO 1183	3.00	g/cc	3.00	g/cc
Mechanical Properties						
Tensile Strength		ISO 527	5,075	psi	30	MPa
Tensile Elongation at Break		ISO 527	3.00	%	3.00	%
Flexural Modulus		ISO 178	420,500	psi	2,900	MPa
Izod Impact Strength		ISO 180/A	0.923	ft-lb/in	6.0	kJ/m2
Processing Information						
Melt Temperature Range			480 - 550	°F	250 - 287	°C
Mold Temperature Range			100 - 150	°F	35 - 65	°C
Mold Shrinkage Rate	(4mm)		.004006	in/in	.46	%
Pre-Drying Conditions			2 - 4 Hours @ 160 - 180 °F		2 - 4 Hours @ 70 - 85 °C	

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