



Technical Data Sheet

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Material: Ecomass[®] Compound 4703ZC57

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

Description / Features: Moderate Specific Gravity, Stainless Steel Powder Filled Polyurethane (TPU)

Processing Method: Injection Molding

Physical Properties					
Test Method	English		SI		
	Value	Units	Value	Units	
Physical Properties					
Product Form	Pellets		Pellets		
Density	ASTM D792	2.30	g/cc	2.30	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	3,330	psi	23	MPa
Tensile Modulus	ASTM D638	80,000	psi	552	MPa
Tensile Elongation at Break	ASTM D638	800	%	800	%
Flexural Modulus	ASTM D790	12,600	psi	87	MPa
Flexural Strength	ASTM D790	5,800	psi	40	MPa
Izod Impact Strength, notched	ASTM D256	5.3	ft-lb/in	283	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	ASTM D955	0.006 - 0.009	in/in	0.6 - 0.9	%
Pre-Drying Conditions	(do not over-dry)	2 hrs at 185°F		2 hrs at 80 °C	

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