

Ecomass® 1700TU96

Polyamide 12

Ecomass Technologies

Message:

Ecomass® 1700TU96 is a polyamide 12 (nylon 12) material containing a tungsten filler. This product is available in North America and is processed by injection molding.

Ecomass® The main features of 1700TU96 are:

Hard

Good toughness

non-toxic

General Information			
Filler / Reinforcement	Tungsten packing		
Features	High specific gravity		
	Good toughness		
	Non-toxic		
	Medium hardness		
Uses	Radiation shielding		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	11.0	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 - 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9650	MPa	ASTM D638
Tensile Strength	44.8	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	8410	MPa	ASTM D790
Flexural Strength	63.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	159	°C	ASTM D648
1.8 MPa, not annealed	155	°C	ASTM D648
Additional Information			
Surface Resistivity, ASTM D257: 0.21 ohms/sq			
Injection	Nominal Value	Unit	
Drying Temperature	73.9	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	204 - 254	°C	

Mold Temperature

57.2 - 82.2

°C

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Recommended distributors for this material

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