

Ecomass® 1080TU96

Polyamide 12

Ecomass Technologies

Message:

Ecomass® 1080TU96 is a Polyamide 12 (Nylon 12) material filled with tungsten. It is available in North America for injection molding.

Important attributes of Ecomass® 1080TU96 are:

Good Toughness

Non-Toxic

Rigid

General Information			
Filler / Reinforcement	Tungsten		
Features	High Specific Gravity		
	Medium Rigidity		
	Non-Toxic		
	Ultra High Toughness		
Uses	Radiation Shielding		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	11.0	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6450	MPa	ASTM D638
Tensile Strength	34.8	MPa	ASTM D638
Tensile Elongation (Break)	3.4	%	ASTM D638
Flexural Modulus	4900	MPa	ASTM D790
Flexural Strength	49.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	121	°C	
1.8 MPa, Unannealed	107	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	0.21	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	73.9	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	204 to 254	°C	

Mold Temperature	57.2 to 82.2	°C
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Recommended distributors for this material

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