

Ecomass® 1003TU96

Polyamide Copolymer

Ecomass Technologies

Message:

Ecomass®1003TU96 is a polyamide copolymer (nylon copolymer) material that contains a tungsten filler. This product is available in North America and is processed by injection molding.

Ecomass®The main features of 1003TU96 are:

Copolymer

Good toughness

Good flexibility

non-toxic

General Information			
Filler / Reinforcement	Tungsten packing		
Features	Ultra high toughness		
	High specific gravity		
	Copolymer		
	Good flexibility		
	Non-toxic		
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 - 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength	19.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	51.7	°C	ASTM D648
Additional Information			
Surface Resistivity, ASTM D257: 0.2 ohms/sq			
Injection	Nominal Value	Unit	
Drying Temperature	73.9	°C	
Drying Time	4.0	hr	

Processing (Melt) Temp	232 - 260	°C
Mold Temperature	65.6 - 82.2	°C

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Recommended distributors for this material

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