

Ecomass® 1080ZD94

Polyamide 12

Ecomass Technologies

Message:

Ecomass® 1080ZD94 is a Polyamide 12 (Nylon 12) material filled with tungsten. It is available in North America for injection molding.

Important attributes of Ecomass® 1080ZD94 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	8.98	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	41.4	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	190	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	0.25	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
------------------	--------------	----

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

