

# Ecomass® 4703ZD90

Thermoplastic Polyurethane Elastomer

Ecomass Technologies

## Message:

Ecomass® 4703ZD90 is a Thermoplastic Polyurethane Elastomer material filled with tungsten. It is available in North America for injection molding.

Important attributes of Ecomass® 4703ZD90 are:

Good Toughness

Non-Toxic

General Information			
Filler / Reinforcement	Tungsten		
Features	Non-Toxic		
	Ultra High Toughness		
Uses	Radiation Shielding		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	7.88	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	655	MPa	ASTM D638
Tensile Strength	16.5	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	82.7	MPa	ASTM D790
Flexural Strength	20.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	210	J/m	ASTM D256
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 93.3	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	204 to 221	°C	
Mold Temperature	10.0 to 26.7	°C	

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Recommended distributors for this material

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