

Ecomass® 4703ZD95

Thermoplastic Polyurethane Elastomer

Ecomass Technologies

Message:

Ecomass® 4703ZD95 is a Thermoplastic Polyurethane Elastomer material filled with tungsten. It is available in North America for injection molding.

Important attributes of Ecomass® 4703ZD95 are:

Good Toughness

Non-Toxic

General Information			
Filler / Reinforcement	Tungsten		
Features	High Specific Gravity		
	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	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	662	MPa	ASTM D638
Tensile Strength	13.8	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	800	MPa	ASTM D790
Flexural Strength	23.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	270	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	0.20	ohms	ASTM D257
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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