

Ecomass® 3800ZD82

Polymethylpentene
Ecomass Technologies

Message:

Ecomass® 3800ZD82 is a Polymethylpentene (PMP) material filled with tungsten. It is available in North America for injection molding. Important attributes of Ecomass® 3800ZD82 are:
Good Toughness
Non-Toxic
Rigid

General Information			
Filler / Reinforcement	Tungsten		
Features	Good Toughness		
	Medium Rigidity		
	Non-Toxic		
Uses	Radiation Shielding		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	3.89	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength	16.6	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	2220	MPa	ASTM D790
Flexural Strength	14.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	91.7	°C	
1.8 MPa, Unannealed	94.4	°C	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	274 to 302	°C	
Mold Temperature	57.2 to 82.2	°C	

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