

## Ecomass® 4301ZC82 Stainless Steel Filled Polyphthalamide

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Stainless Fiber Filled/EMI

### Material Notes:

Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications  
Stainless Steel Powder Filled Polyphthalamide (PPA)  
Very Good Toughness  
Information provided by Technical Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ecomass-4301ZC82-Stainless-Steel-Filled-Polyphthalamide.php](http://www.lookpolymers.com/polymer_Ecomass-4301ZC82-Stainless-Steel-Filled-Polyphthalamide.php)

Physical Properties	Metric	English	Comments
Specific Gravity	3.80 g/cc	3.80 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	Internal

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	ISO 527
Elongation at Break	0.60 %	0.60 %	ISO 527
Tensile Modulus	12.373 GPa	1794.6 ksi	ISO 527
Flexural Modulus	10.149 GPa	1472.0 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 180-A

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 330 °C	590 - 626 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 - 8 hour	4 - 8 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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