

## Solvay Specialty Polymers Amodel® ET-1001 HS Polyphthalamide (PPA) Resin, Dry As Molded (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), High Impact

### Material Notes:

AMODEL ET-1001 HS resin is an impact modified polyphthalamide (PPA) with exceptional impact strength and practical toughness. AMODEL PPA resins offer high fatigue strength, and good chemical resistance combined with good mechanical property retention over a broad temperature/humidity range. Possible applications for AMODEL ET-1001 HS resin include: anti-friction and wear resistant components, and components of chemical and oil processing equipment, sporting goods, automobiles, household appliances, power tools, and safety equipment, where exceptional impact strength and high modulus are required. AMODEL ET-1001 HS resin contains a lubricant for easier processing with conventional equipment and methods. This grade is also heat stabilized for better performance at high temperatures. This product line was acquired by Solvay Advanced Polymers from BP Amoco in November 2001. MatWeb has an entry for this material conditioned at 50% RH.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-ET-1001-HS-Polyphthalamide-PPA-Resin-Dry-As-Molded-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-ET-1001-HS-Polyphthalamide-PPA-Resin-Dry-As-Molded-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.65 %	0.65 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	ASTM E831
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	ASTM E831

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	76.0 MPa	11000 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	2.40 GPa	348 ksi	ASTM D638
Flexural Yield Strength	128 MPa	18600 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Poissons Ratio	0.35	0.35	
Shear Modulus	0.889 GPa	129 ksi	Calculated
Izod Impact, Notched	9.60 J/cm	18.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments 
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	321 - 343 °C	610 - 649 °F	Injection

## Contact Songhan Plastic Technology Co.,Ltd.

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