

Solvay Specialty Polymers Amodel® ET-1001 HS Polyphthalamide (PPA) Resin, at 50% RH (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 dry as molded.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-ET-1001-HS-Polyphthalamide-PPA-Resin-at-50-RH-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	Dry As Molded

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Izod Impact, Notched	9.60 J/cm	18.0 ft-lb/in	ASTM D256

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

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