

Solvay Specialty Polymers Amodel® ET-1000 HS Polyphthalamide (PPA) (Conditioned)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

Amodel® ET-1000 HS is an impact modified, heat stabilized polyphthalamide (PPA) that exhibits exceptional impact strength and toughness. Like all Amodel® PPA resins, ET-1000 HS offers high fatigue strength, good chemical resistance and high mechanical property retention over a broad temperature and humidity range. Features: Ductile; Good Chemical Resistance; Heat Stabilized; Hot Water Moldability; Impact Modified; Low Warpage Uses: Automotive Applications; Automotive Electronics; Automotive Under the Hood; Connectors; General Purpose; Housings; Industrial Applications; Industrial Parts; Lawn and Garden Equipment; Machine/Mechanical Parts; Metal Replacement Injection Molding Notes: Amodel® compounds are shipped in moisture-resistant packages at moisture levels according to specifications. Sealed, undamaged bags should be preferably stored in a dry room at a maximum temperature of 50°C (122°F) and should be protected from possible damage. If only a portion of a package is used, the remaining material should be transferred into a sealable container. It is recommended that Amodel® resins be dried prior to molding. Automotive Specifications ASTM D4000 PA1234 Color: BK684 Black; ASTM D4000 PA1234 Color: NT Natural; ASTM D6779 PA1234; DELPHI 23295267 Color: BK-684 Black; DELPHI 23295267 Color: NT Natural; DELPHI 28213409 Color: BK-684 Black; DELPHI 28213409 Color: NT Natural; DELPHI M-2965 Color: BK684 Black; DELPHI M-2965 Color: NT Natural; DELPHI MSP24103175 Color: NT Natural Information provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-ET-1000-HS-Polyphthalamide-PPA-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	Dry; ISO 1183
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	Dry
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	62.7 MPa	9090 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	96.5 MPa	14000 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	11 %	11 %	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	18 %	18 %	ASTM D638
	@Temperature 23.0	@Temperature 73.4 °F	

Mechanical Properties	°C Metric	English	Comments
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	ASTM D638
Flexural Strength	85.5 MPa	12400 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	11.0 J/cm	20.6 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	310 °C	590 °F	Peak; Dry; ASTM D3418
	310 °C	590 °F	Dry; ISO 11357-3

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	304 - 318 °C	579 - 604 °F	
Front Barrel Temperature	316 - 329 °C	601 - 624 °F	
Melt Temperature	321 - 343 °C	610 - 649 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	110 °C @Time 14400 sec	230 °F @Time 4.00 hour	
Moisture Content	<= 0.045 %	<= 0.045 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
	Impact Modifier	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Natural	
Form	Pellets	

Processing Technique Descriptive Properties	Water-Heated Mold Injection Molding Value	Comments
RoHS Compliance	RoHS Compliant	

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