

Solvay Specialty Polymers Amodel® AS-1566 HS Polyphthalamide (PPA), 65% GlassMineral (Conditioned)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

Amodel® AS-1566 HS resin is a 65% glass and mineral reinforced polyphthalamide (PPA) resin that exhibits a high deflection temperature and high flexural modulus. This grade was designed specifically to be cost effective for most applications requiring high stiffness, good dimensional stability and chemical resistance. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Toughness; Heat Stabilized; High Heat Resistance; High Strength; Low CLTE; Ultra High Stiffness Uses: Automotive Applications; Automotive Electronics; Automotive Under the Hood; General Purpose; Housings; Industrial Applications; Industrial Parts; Lawn and Garden Equipment; Machine/Mechanical Parts; Metal Replacement; Power/Other Tools; Thick-walled Parts; Valves/Valve Parts 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 D6779 PA122R65 Color: BK324 Black; ASTM D6779 PA122R65 Color: BK545 Black; ASTM D6779 PA122R65 Color: NT Natural; BMW GS 93016; DELPHI DCM4899 Color: BK324 Black; DELPHI DCM4899 Color: NT Natural; DELPHI M-2987 Color: BK324 Black; DELPHI M-2987 Color: NT Natural; DELPHI M-53292; DELPHI M-53292 Color: BK545 Black; GM GM7001M PA6T/6I/66 A3 A22 A42 A64 BJ721 DE1830 KS1750 Color: NT Natural; GM GMP.PPA.003 Color: Black; GM GMP.PPA.003 Color: Natural; GM GMW16358P-PPA-GF43MD22 Color: BK324 Black; GM GMW16358P-PPA-GF43MD22 Color: NT Natural; ISO 1874 PA6T/6I/66, MH, 11-120, (GF+MD)64 Color: BK324 Black; ISO 1874 PA6T/6I/66, MH, 11-120, (GF+MD)64 Color: NT Natural; TRW SP-13161601 Color: BK324 Black; TRW SP-13161601 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-AS-1566-HS-Polyphthalamide-PPA-65-GlassMineral-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.84 g/cc	0.0665 lb/in ³	Dry; ISO 1183
Filler Content	65 %	65 %	GlassMineral
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Dry
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	175 MPa	25400 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Tensile Modulus	20.9 GPa	3030 ksi	ASTM D638
Flexural Strength	263 MPa	38100 psi	ASTM D790

Mechanical Properties	Metric ¹	English ¹	Comments
Shear Strength	62.7 MPa	9090 psi	ASTM D732
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	311 Å°C	592 Å°F	Peak; Dry; ASTM D3418
	311 Å°C	592 Å°F	Dry; ISO 11357-3

Processing Properties	Metric	English	Comments
Processing Temperature	79.4 Å°C	175 Å°F	Hopper
Rear Barrel Temperature	307 - 329 Å°C	585 - 624 Å°F	
Front Barrel Temperature	307 - 329 Å°C	585 - 624 Å°F	
Melt Temperature	321 - 343 Å°C	610 - 649 Å°F	
Mold Temperature	65.6 - 166 Å°C	150 - 331 Å°F	
Drying Temperature	120 Å°C	248 Å°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.045 %	<= 0.045 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Natural	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

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