

Solvay Specialty Polymers Amodel® AS-1133 HS Polyphthalamide (PPA), 33% Glass Fiber (Conditioned)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 30% Glass Fiber Reinforced

Material Notes:

Amodel® AS-1133 HS is a 33% glass reinforced, heat stabilized polyphthalamide (PPA) resin that provides excellent structural integrity in molded parts, even those with wall thicknesses greater than 0.125 in (3 mm). Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; Heat Stabilized; High Heat Resistance; High Strength; Low Moisture Absorption. Uses: Automotive Applications; Automotive Electronics; Automotive Under the Hood; Connectors; Fuel Lines; General Purpose; Housings; Industrial Applications; Industrial Parts; Lawn and Garden Equipment; Machine/Mechanical Parts; Metal Replacement; Oil/Gas Applications; 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 D4000 PA121 G35 Color: BK324 Black; ASTM D4000 PA121 G35 Color: NT Natural; ASTM D4000 PPA0111 G33 GB145 KD200 KN090 PN080 YI265 Color: BK324 Black; ASTM D4000 PPA0111 G33 GB145 KD200 KN090 PN080 YI265 Color: NT Natural; ASTM D6779 PA121G35; BOSCH N28 BN05-OX1 BN0510-GF35-3Anf01SO Color: NT Natural; BOSCH N28 BN05-OX1 BN0510-GF35-3Asw01SO Color: BK324 Black; DELPHI M-6071 Color: NT Natural; FORD WSK-M4D843-A2 Color: BK324 Black; FORD WSK-M4D843-A2 Color: NT Natural; ISO 1874 PA6T/6I/66, MH, 12-120, GF33 Color: BK324 Black; ISO 1874 PA6T/6I/66, MH, 12-120, GF33 Color: NT Natural; SIEMENS S219536 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-1133-HS-Polyphthalamide-PPA-33-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	Dry; ISO 1183
Filler Content	33 %	33 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.00 cm/cm	0.00 in/in	
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	193 MPa	28000 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ASTM D638
Tensile Modulus	13.1 GPa	1900 ksi	ASTM D638
Flexural Yield Strength	254 MPa	36800 psi	ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	ASTM D790

Compressive Strength Mechanical Properties	247 MPa Metric	35800 psi English	ASTM D695 Comments
Shear Strength	88.9 MPa	12900 psi	ASTM D732
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	ASTM D257
Dielectric Constant	4.3	4.3	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.7	4.7	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0090	0.0090	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	0.022	0.022	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495
Comparative Tracking Index	550 V	550 V	UL 746

Processing Properties	Metric	English	Comments
Processing Temperature	79.4 Â°C	175 Â°F	Hopper
Rear Barrel Temperature	304 - 318 Â°C	579 - 604 Â°F	
Front Barrel Temperature	316 - 329 Â°C	601 - 624 Â°F	
Melt Temperature	321 - 343 Â°C	610 - 649 Â°F	
Mold Temperature	135 Â°C	275 Â°F	
	120 Â°C	248 Â°F	

Processing Properties	Metric	English	Comments
	@ 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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