

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

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

Material Notes:

Amodel® A-1133 HS is a 33% glass reinforced, heat stabilized polyphthalamide (PPA) with a high heat deflection temperature, high flexural modulus and high tensile strength. Excellent creep resistance and low moisture absorption are also characteristic of this resin. Testing conducted on samples dry as molded and samples conditioned to 50% relative humidity in accordance with ISO-1110, Accelerated Method. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Heat Resistance; High Stiffness; High Strength; High Temperature Strength; Low Moisture Absorption. Uses: Automotive Applications; Automotive Electronics; Automotive Interior Parts; Automotive Under the Hood; Cell Phones; Connectors; Fuel Lines; Housings; Industrial Applications; Industrial Parts; Machine/Mechanical Parts; Metal Replacement; Power/Other Tools. 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 3M 11-0003-5762-1 X62 4200; ASTM D4000 PA121 G35 Color: BK324 Black; ASTM D4000 PA121 G35 Color: NT Natural; ASTM D6779 PA121G35; BOSCH N28 BN05-OX1 BN0510-GF35-0Anf01SO Color: NT Natural; BOSCH N28 BN05-OX1 BN0510-GF35-0Asw01SO Color: BK-324 Black; CHRYSLER MS-DB-478 CPN4242 Color: NT Natural; CHRYSLER MS-DB-478 Type A CPN3598 Color: BK324 Black; DELPHI M-53290 Color: BK324 Black; DELPHI M-53290 Color: NT Natural; DELPHI M-6071 Color: NT Natural; DELPHI MS-5216 Color: BK324 Black; DELPHI MS-5216 Color: NT Natural; FORD WSP-M4D843-A Color: BK324 Black; FORD WSP-M4D843-A Color: NT Natural; GM GMP.PPA.004 Color: BK324 Black; GM GMP.PPA.004 Color: NT Natural; GM GMW15702-110020 >PPA+GF33< (A4, A22, A64, BA633, DC1473, G20, KM1158, KS2300, LS20, RS9, SS260, Z1) Color: NT Natural; GM GMW16356P-PPA-GF35 Color: BK-324 Black; GM GMW16356P-PPA-GF35 Color: NT Natural; IMDS ID 21195756 Color: Black; IMDS ID 21195756 Color: Natural; TRW S-13318701 Color: BK543 Black; VALEO VMS-4470 Color: BK324 Black; VALEO VMS-4470 Color: NT Natural; YAZAKI YPES-25-02-135 Color: Colors; YAZAKI YPES-25-02-135 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-A-1133-HS-Polyphthalamide-PPA-33-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	Dry; ISO 1183
Filler Content	33 %	33 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Dry
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	193 MPa	28000 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ASTM D638

Mechanical Properties	Metric Pa	English	Comments
Flexural Strength	254 MPa	36800 psi	ASTM D790
Flexural Modulus	11.4 GPa	1650 ksi	ASTM D790
Shear Strength	88.9 MPa	12900 psi	ASTM D732
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	313 Å°C	595 Å°F	Dry; ISO 11357-3
	313 Å°C	595 Å°F	Dry; DSC

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
Rear Barrel Temperature	304 - 318 Å°C	579 - 604 Å°F	
Front Barrel Temperature	316 - 329 Å°C	601 - 624 Å°F	
Melt Temperature	321 - 343 Å°C	610 - 649 Å°F	
Mold Temperature	135 Å°C	275 Å°F	

Processing Properties	Metric	English	Comments
Drying Temperature	@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	
Part Marking Code	>PA6T/6I/66-GF33<	ISO 11469
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	
UL File Number	E95746 (Global)	

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