

Solvay Specialty Polymers Amodel® AS-4133 L Polyphthalamide (PPA), 33% Glass Fiber (Conditioned)

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

Material Notes:

Amodel® AS-4133 L polyphthalamide (PPA) a 33% glass reinforced, lubricated, structural grade of polyphthalamide (PPA) that offers fast cycle times and is hot water moldable. Typical applications include electrical and electronic components. Features: Fast Molding Cycle; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Strength; Hot Water Moldability; Low Moisture Absorption; Lubricated. Uses: Automotive Applications; Automotive Electronics; Automotive Under the Hood; Cell Phones; Electrical/Electronic Applications; General Purpose; Housings; Industrial Applications; 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 PA105G35. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AS-4133-L-Polyphthalamide-PPA-33-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	Dry; ISO 1183
	1.45 g/cc	0.0524 lb/in ³	Dry; ASTM D792
Filler Content	33 %	33 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	Dry
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 MPa	24900 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Tensile Modulus	11.7 GPa	1700 ksi	ASTM D638
Flexural Yield Strength	241 MPa	35000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	172 MPa	24900 psi	ASTM D695
Shear Strength	75.8 MPa	11000 psi	ASTM D732
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	UL 746
High Voltage Arc-Tracking Rate, HVTR	18.0 mm/min	0.709 in/min	UL 746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	318 - 324 Â°C	604 - 615 Â°F	
Front Barrel Temperature	327 - 332 Â°C	621 - 630 Â°F	
Melt Temperature	329 - 343 Â°C	624 - 649 Â°F	
Drying Temperature	120 - 135 Â°C @Time 14400 sec	248 - 275 Â°F @Time 4.00 hour	
Moisture Content	<= 0.045 %	<= 0.045 %	

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

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