

Solvay Specialty Polymers Amodel® AF-1145 V0 Polyphthalamide (PPA) Resin, 45% Glass Reinforced, at 50% RH (di

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

Material Notes:

AMODEL AF-1145 V0 is a 45% glass reinforced, flame retarded polyphthalamide (PPA) which exhibits a high heat distortion temperature, high tensile strength and flexural modulus. The material is relatively insensitive to moisture which results in good dimensional stability. Therefore, typical humid environmental conditions result in only minor changes in the strength and stiffness. This grade of AMODEL resin can withstand the demanding vapor phase and infrared reflow soldering processes typically used in the electronics industry. It is ideally suited for connectors and electrical devices requiring surface mount technology (SMT). The material offers easy processing using conventional equipment and methods. This product line was acquired by Solvay Advanced Polymers from BP Amoco in November 2001. MatWeb has an entry for this material dry as molded.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AF-1145-V0-Polyphthalamide-PPA-Resin-45-Glass-Reinforced-at-50-RH-nbspdi.php

Physical Properties	Metric	English	Comments
Density	1.81 g/cc	0.0654 lb/in ³	Dry As Molded

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	177 MPa	25700 psi	ASTM D638
Tensile Modulus	18.0 GPa	2610 ksi	ASTM D638
Flexural Yield Strength	243 MPa	35200 psi	ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Processing Properties	Metric	English	Comments
Melt Temperature	321 - 338 °C	610 - 640 °F	Injection

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