

Solvay Specialty Polymers Amodel® FR-4133 Polyphthalamide (PPA) Resin, 33% Glass Reinforced, at 50% RH (disco)

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

Material Notes:

AMODEL FR-4133 is a 33% glass-reinforced polyphthalamide (PPA) resin designed for electrical and electronic applications. This UL94-V0 resin offers the highest mechanical and electrical properties, plus superior thermal performance to resist blistering during lead-free SMT processes. Color stability is enhanced compared to previous flame-retarded grades. Quick crystallization in water-cooled molds allows for fast cycle times using mold temperatures as low as 150°F (65°C). Information provided by Solvay Advanced Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-FR-4133-Polyphthalamide-PPA-Resin-33-Glass-Reinforced-at-50-RH-nbspdisco.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.68 g/cc	1.68 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.10 %	0.10 %	24 hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	178 MPa	25800 psi	ASTM D638
Elongation at Yield	1.7 %	1.7 %	ASTM D638
Tensile Modulus	14.2 GPa	2060 ksi	ASTM D638
Flexural Strength	257 MPa	37300 psi	ASTM D790
Flexural Modulus	14.1 GPa	2050 ksi	ASTM D790
Poissons Ratio	0.37	0.37	
Shear Modulus	5.18 GPa	751 ksi	Calculated
Shear Strength	70.0 MPa	10200 psi	ASTM D732
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	326 °C	619 °F	ASTM D3418

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