

## Solvay Specialty Polymers Amodel® A-1240 HS Polyphthalamide (PPA) Resin, 40% Mineral Reinforced, at 50% RH (d

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Mineral Filled

### Material Notes:

AMODEL A-1240 polyphthalamide (PPA) resins are 40% mineral filled resins that have high deflection temperature, flexural modulus, and tensile strength. They mold with low warpage, have excellent dimensional stability and low moisture absorption. There are two versions of AMODEL A-1240 resin, "L" and "HS". The L version will usually provide the smoother, higher gloss surface, while the HS version gives better long-term thermal aging properties. Both AMODEL A-1240 resins can be easily processed 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-A-1240-HS-Polyphthalamide-PPA-Resin-40-Mineral-Reinforced-at-50-RH-nbspd.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1240-HS-Polyphthalamide-PPA-Resin-40-Mineral-Reinforced-at-50-RH-nbspd.php)

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in <sup>3</sup>	Dry As Molded
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM E831
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM E831

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	93.0 MPa	13500 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ASTM D638
Tensile Modulus	8.30 GPa	1200 ksi	ASTM D638
Flexural Yield Strength	176 MPa	25500 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Shear Strength	93.0 MPa	13500 psi	ASTM D732
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	ASTM D257
Dielectric Constant	4.0	4.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.4	4.4	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 100 Hz	@Frequency 100 Hz	ASTM D150
	0.019	0.019	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495
Comparative Tracking Index	550 V	550 V	

Processing Properties	Metric	English	Comments
Melt Temperature	321 - 343 °C	610 - 649 °F	Injection

## Contact Songhan Plastic Technology Co.,Ltd.

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