

Solvay Specialty Polymers Amodel® AP-9240 NL Polyphthalamide (PPA) Resin, 40% Mineral Filled, Dry as Molded (

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

Material Notes:

AMODEL AP-9240 NL resin is a 40% mineral-filled, impact-modified polyphthalamide (PPA). It was designed to provide a smooth molded surface suitable for many decorative applications. This resin offers excellent dimensional stability and chemical resistance, good mechanical properties and low warpage, and moisture absorption. This material is readily injection molded using conventional equipment and methods. Information provided by Solvay Advanced Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AP-9240-NL-Polyphthalamide-PPA-Resin-40-Mineral-Filled-Dry-as-Molded-nbsp.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
	1.49 g/cc	1.49 g/cc	ISO 1183A
Moisture Absorption at Equilibrium	0.20 %	0.20 %	24 hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D785
Tensile Strength, Yield	81.0 MPa	11700 psi	ISO 527
	85.0 MPa	12300 psi	ASTM D638
	20.0 MPa	2900 psi	ISO 527
	@Temperature 175 °C	@Temperature 347 °F	
	24.0 MPa	3480 psi	ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
Elongation at Break	41.0 MPa	5950 psi	ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
	1.9 %	1.9 %	ISO 527
	8.9 %	8.9 %	ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
	12.3 %	12.3 %	ISO 527
	@Temperature 175 °C	@Temperature 347 °F	ISO 527
	15 %	15 %	

Mechanical Properties	@Temperature 150 °C Metric	@Temperature 302 °F English	Comments
Elongation at Yield	2.1 %	2.1 %	ASTM D638
Tensile Modulus	5.80 GPa	841 ksi	ISO 527
	6.10 GPa	885 ksi	ASTM D638
	0.600 GPa	87.0 ksi	ISO 527
	@Temperature 175 °C	@Temperature 347 °F	
	0.700 GPa	102 ksi	ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	3.20 GPa	464 ksi	ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
Flexural Strength	110 MPa	16000 psi	ISO 178
	148 MPa	21500 psi	ASTM D790
	15.0 MPa	2180 psi	ISO 178
	@Temperature 175 °C	@Temperature 347 °F	
	18.0 MPa	2610 psi	ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	60.0 MPa	8700 psi	ISO 178
	@Temperature 100 °C	@Temperature 212 °F	
Flexural Modulus	4.30 GPa	624 ksi	ISO 178
	5.60 GPa	812 ksi	ASTM D790
	0.600 GPa	87.0 ksi	ISO 178
	@Temperature 175 °C	@Temperature 347 °F	
	0.700 GPa	102 ksi	ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	3.30 GPa	479 ksi	ISO 178
	@Temperature 100 °C	@Temperature 212 °F	
Compressive Strength	162 MPa	23500 psi	ASTM D695
Poissons Ratio	0.32	0.32	
Shear Modulus	2.20 - 2.31 GPa	319 - 335 ksi	Calculated
Shear Strength	74.0 MPa	10700 psi	ASTM D732

Mechanical Properties	Metric J/cm	English lb/in	Comments
Izod Impact, Unnotched	6.94 J/cm	13.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.90 kJ/m ²	2.81 ft-lb/in ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/m ²	25.2 ft-lb/in ²	ISO 180/1U
Charpy Impact Unnotched	4.90 J/cm ²	23.3 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.460 J/cm ²	2.19 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	313 °C	595 °F	ASTM D3418
	313 °C	595 °F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	154 °C	309 °F	ASTM D648
	154 °C	309 °F	ISO 75Af

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China