

Solvay Specialty Polymers Amodel® A-1115 HS Polyphthalamide (PPA) Resin, 15% Glass Reinforced, at 50% RH (dis

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 20% Glass Fiber Reinforced

Material Notes:

AMODEL A-1115 HS resin is a 15% glass reinforced, heat stabilized polyphthalamide (PPA) which exhibits a high deflection temperature, high flexural modulus, and high tensile strength. Excellent creep resistance and low moisture absorption are also characteristic of this resin. AMODEL A-1115 HS resin 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-1115-HS-Polyphthalamide-PPA-Resin-15-Glass-Reinforced-at-50-RH-nbspdis.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	Dry As Molded

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	112 MPa	16200 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Tensile Modulus	8.30 GPa	1200 ksi	ASTM D638
Flexural Yield Strength	161 MPa	23400 psi	ASTM D790
Flexural Modulus	6.20 GPa	899 ksi	ASTM D790
Compressive Yield Strength	190 MPa	27600 psi	ASTM D695
Shear Strength	81.0 MPa	11700 psi	ASTM D732
Izod Impact, Notched	0.360 J/cm	0.674 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 60 Hz	@Frequency 60 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
Dissipation Factor	0.0080	0.0080	ASTM D150

Electrical Properties	@Frequency 60 Hz Metric	@Frequency 60 Hz English	Comments
	0.023	0.023	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	115 sec	115 sec	ASTM D495
Comparative Tracking Index	550 V	550 V	

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

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