

Solvay Specialty Polymers Amodel® ET-1001 L Polyphthalamide (PPA) Resin, Dry as Molded (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), High Impact

Material Notes:

AMODEL ET-1001 L resin is an impact modified polyphthalamide (PPA) with exceptional impact strength and practical toughness. AMODEL PPA resins offer high fatigue strength, and good chemical resistance combined with good mechanical property retention over a broad temperature/ humidity range. Possible applications for AMODEL ET-1001 L resin include anti-friction and wear resistant components, and components of chemical and oil processing equipment, sporting goods, automobiles, household appliances, power tools, and safety equipment, where exceptional impact strength and high modulus are required. AMODEL ET-1001 L resin contains a lubricant for easier processing with 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-ET-1001-L-Polyphthalamide-PPA-Resin-Dry-as-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ISO 1183A
	1.15 g/cc	1.15 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.70 %	0.70 %	24 hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527
	31.0 MPa @Temperature 100 °C	4500 psi @Temperature 212 °F	ISO 527
Tensile Strength, Yield	58.0 MPa	8410 psi	ISO 527
	76.0 MPa	11000 psi	ASTM D638
	32.0 MPa @Temperature 100 °C	4640 psi @Temperature 212 °F	ISO 527
	Elongation at Break	15 %	15 %
	30 %	30 %	ASTM D638
	54.3 % @Temperature 100 °C	54.3 % @Temperature 212 °F	ISO 527
	Elongation at Yield	6.0 %	6.0 %
	6.0 %	6.0 %	ISO 527

Mechanical Properties	Metric	English	Comments
	@Temperature 100 °C	@Temperature 212 °F	
Tensile Modulus	2.30 GPa	334 ksi	ISO 527
	2.40 GPa	348 ksi	ASTM D638
	1.80 GPa	261 ksi	ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
Flexural Strength	66.0 MPa	9570 psi	ISO 178
	128 MPa	18600 psi	ASTM D790
	42.0 MPa	6090 psi	ISO 178
	@Temperature 100 °C	@Temperature 212 °F	
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
	2.60 GPa	377 ksi	ASTM D790
	1.30 GPa	189 ksi	ISO 178
	@Temperature 100 °C	@Temperature 212 °F	
Poissons Ratio	0.35	0.35	
Shear Modulus	0.852 - 0.889 GPa	124 - 129 ksi	Calculated
Shear Strength	53.0 MPa	7690 psi	ASTM D732
Izod Impact, Notched	9.60 J/cm	18.0 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	80.0 kJ/m ²	38.1 ft-lb/in ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/1U
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	NB	NB	ISO 179/1eA
Dynatup @ -18°C	43.0 J	31.7 ft-lb	Energy at Maximum Load. Dry as molded. 23°C; D3763
	46.0 J	33.9 ft-lb	Energy at Maximum Load. Dry as molded. -23°C; D3763
	64.0 J	47.2 ft-lb	Total Energy. Dry as molded. 23°C; D3763
	66.0 J	48.7 ft-lb	Total Energy. Dry as molded. -23°C; D3763
Dynatup @ -18°C Max Load	571000 g	1260 lb	23°C; D3763
	662000 g	1460 lb	

Mechanical Properties	Metric	English	-23 °C: D3763 Comments
Thermal Properties	Metric	English	Comments
Melting Point	310 °C	590 °F	ASTM D3418
	310 °C	590 °F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	ISO 75Af
	120 °C	248 °F	ASTM D648

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