

Solvay Specialty Polymers Amodel® EXT-1800 Polyphthalamide, extrusion (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

AMODEL EXT-1800 was developed specifically for the extrusion process. Unlike the grades targeted for injection molding, AMODEL EXT-1800 resin can be successfully extruded into tube, pipe, sheet, film, and profiles, and can also be used in wire coating applications. This grade can also be processed by other low-pressure forming techniques such as blow molding and thermoforming. AMODEL EXT-1800 resin offers low moisture absorption, excellent dimensional stability, thermal and chemical resistance, as well as, outstanding mechanical properties. Data for dry-as-molded samples unless noted.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-EXT-1800-Polyphthalamide-extrusion-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	0.75 %	0.75 %	24 hrs; ISO 62
Linear Mold Shrinkage	0.017 - 0.022 cm/cm	0.017 - 0.022 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.019 - 0.021 cm/cm	0.019 - 0.021 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	42.0 MPa	6090 psi	50% RH; ISO 527
	54.0 MPa	7830 psi	ISO 527
Elongation at Break	25 %	25 %	50% RH; ISO 527
	25 %	25 %	ISO 527
Elongation at Yield	6.0 %	6.0 %	50% RH; ISO 527
	6.0 %	6.0 %	ISO 527
Tensile Modulus	1.70 GPa	247 ksi	ISO 527
	1.80 GPa	261 ksi	50% RH; ISO 527
Flexural Strength	75.0 MPa	10900 psi	50% RH; ISO 178
	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	1.80 GPa	261 ksi	ISO 178
	1.90 GPa	276 ksi	50% RH; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)			50% RH; ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	75.0 kJ/m ²	35.7 ft-lb/in ²	ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	108 kJ/m ²	51.4 ft-lb/in ²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	115 kJ/m ²	54.7 ft-lb/in ²	50% RH; ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	NB	NB	50% RH; ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	50% RH; ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	310 °C	590 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	329 °C	624 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	248 °C	478 °F	ISO 75
Glass Transition Temp, Tg	123 °C	253 °F	

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