

## Solvay Specialty Polymers Amodel® HFZ A-1145 L Polyphthalamide (PPA) (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

### Material Notes:

Amodel® HFZ A-1145 L is a high-flow, 45% glass-fiber-reinforced grade. - Natural: HFZ A-1145 L NT - Black: HFZ A-1145 L BK  
937Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-HFZ-A-1145-L-Polyphthalamide-PPA-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-HFZ-A-1145-L-Polyphthalamide-PPA-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in <sup>3</sup>	ISO 1183/A
Filler Content	45 %	45 %	Glass Fiber Reinforcement

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	232 MPa	33600 psi	ISO 527-2
Elongation at Break	1.8 % @Temperature 23.0 °C	1.8 % @Temperature 73.4 °F	ISO 527-2
Tensile Modulus	15.1 GPa	2190 ksi	ISO 527-2
Flexural Strength	330 MPa	47900 psi	ISO 178
Flexural Modulus	14.0 GPa @Temperature 23.0 °C	2030 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	7.80 kJ/m <sup>2</sup>	3.71 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact, Notched	0.990 J/cm <sup>2</sup>	4.71 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	302 °C	576 °F	Unannealed; ISO 75-2/Af

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 329 °C	601 - 624 °F	
Middle Barrel Temperature	316 - 329 °C	601 - 624 °F	
Front Barrel Temperature	324 - 335 °C	615 - 635 °F	
Melt Temperature	321 - 343 °C	610 - 649 °F	

Mold Temperature Processing Properties	150 °C Metric	302 °F English	Comments
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	

Descriptive Properties	Value	Comments
Appearance	Black	
	Natural Color	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	Good Stiffness	
	High Flow	
	High Stiffness	
	High Strength	
	High Temperature Strength	
	Low Moisture Absorption	
Forms	Pellets	
Generic	PPA	
Processing Method	Injection Molding	
Uses	Automotive Applications	
	Automotive Electronics	
	Automotive Under the Hood	

Descriptive Properties	Robbins Value	Comments
	Connectors	
	Electrical/Electronic Applications	
	General Purpose	
	Industrial Applications	
	Industrial Parts	
	Lawn and Garden Equipment	
	Machine/Mechanical Parts	
	Metal Replacement	

## Contact Songhan Plastic Technology Co.,Ltd.

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