

# Amphora™ 3D Polymer AM1800

Unspecified  
Eastman Chemical Company

Message:

Eastman Amphora™ 3D polymer is a low-odor, styrene-free choice that is uniquely suited for 3D Printing applications. With Amphora, makers can create items that are more functional, durable, efficient, and attractive. Now you can fulfill your vision with 3D creations that exhibit excellent aesthetics and superior toughness. Amphora also complies with certain U.S. Food and Drug Administration (FDA) regulations for food contact applications. That means, with Amphora, you'll be able to make a lot of things you can't with other materials. Best of all, you'll be able to make certain your final product meets your expectations.

General Information			
Features	Good dimensional stability		
	Gloss, Medium		
	Workability, good		
	The smell is low to none		
	Good toughness		
	Compliance of Food Exposure		
	Good appearance		
	Medium transparency		
Uses	Filament		
Agency Ratings	FDA Food Exposure, Not Rated		
Processing Method	3D Printing, Fused Filament Fabrication (FFF)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1900	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	50.0	MPa	ASTM D638
Fracture, 23°C	28.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	5.0	%	ASTM D638
Fracture, 23°C	110	%	ASTM D638
Flexural Modulus (23°C)	2100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	95	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	70.0	°C	ASTM D648
1.8 MPa, not annealed	62.0	°C	ASTM D648

#### Additional Information

Typical Processing Conditions:

Nozzle Temperature: 245°C

Heated Bed Temperature: 70°C

Layer Height: 0.2 mm

Speed: 30 to 60 mm/s

Infill: As needed up to 100%

Perimeter: 1.2 mm

Minimal Layer Time: 5 sec

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#### Recommended distributors for this material

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