

Amphora™ 3D Polymer AM3300

Unspecified
Eastman Chemical Company

Message:

Eastman Amphora™ AM3300 3D polymer is a low-odor, styrene-free material uniquely suited for 3D printing enthusiasts, particularly those who need the flexibility to print within a wide processing temperature range. Amphora AM3300 has good flow properties through the printer nozzle-even at lower temperatures than some other polymers require. These properties make AM3300 more workable at a wider breadth of temperatures, producing reliable results and resulting in less waste. The model of functional aesthetics, Amphora AM3300 can be made into high-quality filament that exhibits advanced overhang ability, excellent looks, and large printing temperature range-empowering large panel of users to create durable and useful items. Amphora AM3300 is also a highly efficient polymer that can help speed up processing times. With the unique combination of a low processing temperature and an elevated temperature resistance, Amphora AM3300, can quickly print creations that are functional, durable, efficient, and attractive.

General Information			
Features	Workability, good		
	The smell is low to none		
Uses	Filament		
Processing Method	3D Printing, Fused Filament Fabrication (FFF)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	50.0	MPa	ASTM D638
Fracture, 23°C	35.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	4.5	%	ASTM D638
Fracture, 23°C	190	%	ASTM D638
Flexural Modulus (23°C)	1800	MPa	ASTM D790
Flexural Strength	67.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	38	J/m	ASTM D256
23°C	70	J/m	ASTM D256
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		ASTM D4812
23°C	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	71.0	°C	ASTM D648
1.8 MPa, not annealed	63.0	°C	ASTM D648

Additional Information

Typical Processing Conditions:

Processing Melt Temperature: 210 to 240°C

Heated Bed Temperature: 60°C

Cooling: 0 to 100%

Layer Height: 0.1 or 0.2 mm

Speed: 30 to 100 mm/s

Infill: As needed up to 100%

Perimeter: Around 1 mm

Minimal Layer Time: 4 sec

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