

Technical Data SheetEastman Amphora™ 3D Polymer AM3300

Application/Uses

Production of 3D Printing filaments

Key Attributes

- Clarity and gloss
- Dimensional stability
- Enhanced aesthetics
- Excellent toughness and temperature resistance
- Extended Processing Window
- FDA compliance
- Low odor
- Property retention in 3D applications
- Styrene-free
- Workability

Product Description

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.

Typical Properties (Preliminary)

Test ^b Method	Typical Value, Units ^c
D 792	1.20 g/cm ³
D 638	50 MPa (7210 psi)
D 638	35 MPa (6240 psi)
D 638	4.5%
D 638	193%
D 790	1800 MPa (2.60 $\times 10^5 \text{psi}$)
D 790	67 MPa (9717 psi)
	D 792 D 638 D 638 D 638 D 638 D 638 D 790

Rockwell Hardness, R Scale Izod Impact Strength, Notched @ 23°C (73°F) @ -40°C Impact Strength, Unnotched @ 23°C (73°F) @ -40°C	D 785 D 256 D 256 D 4812 D 4812	105 70 J/m (1.3 ft·lbf/in.) 38 J/m (0.7 ft·lbf/in.) NB NB
Thermal Properties		
Deflection Temperature @ 0.455 MPa (66 psi) @ 1.82 MPa (264 psi)	D 648 D 648	71°C (160°F) 63°C (145°F)
Typical Processing Conditions		
Processing Melt Temperature Heated Bed Temperature Cooling Layer Height Speed Infill Perimeter Minimal Layer Time		210-240°C 60°C 0 to 100% 0.1 or 0.2 mm 30 to 100 mm/s As needed up to 100% Around 1 mm 4 sec

^a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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b Unless noted otherwise, the test method is ASTM.

^c Units are in SI or US customary units.