

## Eastman Amphora™ AM1800 3D Polymer

Category : Polymer , Rapid Prototyping Polymer

### Material Notes:

Eastman Amphora™ 3D polymer is a low-odor, styrene-free choice that was developed for 3D Printing applications. With Amphora, makers can create items that are more functional, durable, efficient, and attractive. Amphora complies with certain U.S. Food and Drug Administration (FDA) regulations for food contact applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Amphora-AM1800-3D-Polymer.php](http://www.lookpolymers.com/polymer_Eastman-Amphora-AM1800-3D-Polymer.php)

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	110 %	110 %	ASTM D638
Elongation at Yield	5 %	5 %	ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	ASTM D638
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	0.930 J/cm @Temperature 23.0 °C	1.74 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	Manufacturer mentions clarity but does not quantify

Processing Properties	Metric	English	Comments
Nozzle Temperature	245 °C	473 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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