

## American Polymers API 500 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

### Material Notes:

API 500 is a heat resistant grade of impact polystyrene. It has superior heat resistance, good impact resistance and easy colorability. Applications: API 500 is used in housewares, toys, containers, displays and appliance parts. Information provided by American Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_American-Polymers-API-500-Polystyrene.php](http://www.lookpolymers.com/polymer_American-Polymers-API-500-Polystyrene.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM D792
Melt Flow	4.0 g/10 min	4.0 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	40	40	ASTM D785
Tensile Strength, Ultimate	36.5 MPa	5300 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Tensile Modulus	1.79 GPa	260 ksi	ASTM D638
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.17 mm	1.20 ft-lb/in @Thickness 0.125 in	injection molded sample; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.3 °C	191 °F	Annealed; ASTM D648
Vicat Softening Point	98.9 °C	210 °F	ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China