

## American Polymers API 505 HF Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

### Material Notes:

API 505 HF is a high flow, intermediate grade of impact modified polystyrene. This material possess exceptional moldability and easy colorability. API 505 HF offers good retention of mechanical properties in applications with long flow length requirements. Applications: API 505 HF is widely used in housewares, housings of all types, toys, displays and as base resin for color concentrate production. Information provided by American Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_American-Polymers-API-505-HF-Polystyrene.php](http://www.lookpolymers.com/polymer_American-Polymers-API-505-HF-Polystyrene.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM D792
Melt Flow	14 g/10 min	14 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	59	59	ASTM D785
Tensile Strength, Ultimate	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	ASTM D638
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Thickness 3.17 mm	1.30 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)	82.2 °C	180 °F	Annealed; ASTM D648
Vicat Softening Point	87.8 °C	190 °F	ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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