

American Polymers API 505 Polystyrene

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

Material Notes:

API 505 is an intermediate grade of impact modified polystyrene. This material has exceptional moldability and colorability. Applications: API 505 is widely used in housewares, toys, containers, displays and a wide range of injection molded applications. Information provided by American Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Polymers-API-505-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Melt Flow	8.0 g/10 min	8.0 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	59	59	ASTM D785
Tensile Strength, Ultimate	29.0 MPa	4200 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Tensile Modulus	1.65 GPa	240 ksi	ASTM D638
Flexural Modulus	1.72 GPa	250 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)	85.0 °C	185 °F	Annealed; ASTM D648
Vicat Softening Point	93.9 °C	201 °F	ASTM D1525

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