

API PS 505

High Impact Polystyrene
American Polymers, Inc.

Message:

API 505 is an intermediate grade of impact modified polystyrene. This material has exceptional moldability and colorability.
Application: API 505 is widely used in the manufacture housewares, toys, containers, displays, and a wide range of injection molded applications.

General Information			
Features	Good Colorability		
	Good Moldability		
Uses	Containers		
	Decorative Displays		
	Household Goods		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	59		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength (Break)	29.0	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	93.9	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	2.0	hr	
Suggested Max Regrind	30	%	
Rear Temperature	177 to 232	°C	
Front Temperature	191 to 274	°C	

Mold Temperature	-6.67 to 71.1	°C
Injection Pressure	34.5 to 276	MPa
Back Pressure	0.0689 to 3.45	MPa

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

