



Material: **API II 505**

Product Description: API II 505 is an intermediate grade of impact modified polystyrene. This material has improved gloss, rigidity and color ability.

Application: API II 505 is widely used in housewares, toys, containers, POP displays and a wide range of injection molded applications. Complies with FDA regulation 21 CFR 177.1640.

Property	Data	Unit	Test Method
Mechanical			
Tensile Strength at Failure	4,100	psi	ASTM D 638
Tensile Modulus	260,000	psi	ASTM D 638
Flexural Modulus	300,000	psi	ASTM D 790
Elongation at Failure	35.0	%	ASTM D 638
Rockwell Hardness	48	L Scale	ASTM D 785
Impact			
Izod Impact Strength	1.3 *	ft.lbs./inch	ASTM D 256
Thermal			
Vicat Softening Point	201	deg. F	ASTM D 1525
Deflection Temperature (annealed) @ 264 psi	185	deg. F	ASTM D 648
Physical			
Melt Flow (Condition G)	8.0	gr./ 10 min.	ASTM D 1238
Specific Gravity	1.04	gr./ cc	ASTM D 892

* Test results obtained using 1/8 inch notched injection molded specimen

The test results and property values listed have been obtained using laboratory controlled test methods. These values are intended to be a guide only. They are offered without guarantee since conditions under which our product is used are beyond our control. API II, therefore, disclaims any liability for loss or damage incurred in connection with this products use. Rev 06/09

API II, INC.

11421 Labrador Lane, Concord, OH 44077
440-725-9019

WWW.API2.NET